ORDER NO. AD9204111C2

Service Manual

Portable Stereo CD System

Radio Cassette

RX-DT505

COMPACT disc DIGITAL AUDIO

Colour

(K)	Black Type

Areas

Suffix for Model No.	Area	Colour
(EB)	Great Britain	(K)
(EG)	Europe and Germany	

TAPE DECK: RX-FD55 MECHANISM SERIES (AR300)
TRAVERSE DECK: RX-DT55 MECHANISM SERIES (S0DD110)

■ SPECIFICATIONS

General:

Power Requirement:	AC; (EB)...240 V, 50 Hz (EG)...220 V, 50 Hz Battery; 15 V (10 R20/LR20, UM-1 batteries) Memory Back-up for Computer/ Clock; 6 V (4 R6/LR6, UM-3 batteries)
Power Consumption:	43 W
Power Output:	50 W...PMPO
Speaker:	Woofer; 10 cm PM Dynamic speaker 2.7Ω Tweeter; 2 cm Ceramic speaker
Input:	MIX MIC; 5 mV/200~600Ω, ∅3.5
Outputs:	HEADPHONES; 32Ω, ∅3.5 CD OUT; 1 V (CD 0 dB)
Dimensions:	680 (W)×174 (H)×263 (D) mm
Weight:	6.6 kg without batteries

Disc Player Section:

Sampling Frequency:	44.1 kHz
D-A Conversion:	16-bit linear
Beam Source:	Semiconductor laser (wavelength 780 nm)
No. of Channels:	2 channels, stereo
Frequency Range:	20~20,000 Hz (+1/−2 dB)
Wow and Flutter:	Less than possible measurement data
D/A converter:	MASH (1 BIT)

Radio Section:

Frequency Range:	FM; 87.5~108 MHz LW; 144~288 kHz MW; 522~1611 kHz
Intermediate Frequency:	FM; 10.7 MHz AM (LW/MW); 459 kHz
Sensitivity:	FM; 14 dB μV MW; 35 dB/m/0.5 mW output LW; 40 dB/m/0.5 mW output

Tape Deck Section:

Frequency Range:	30~16,000 Hz (with normal tape) 30~17,000 Hz (with CrO_2 tape)
Recording System:	AC bias, AC erase (Deck 2)
Tape Speed:	4.8 cm/s
Monitor System:	Variable sound monitor
Track System:	4-track 2-channel stereo recording and playback

Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic

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CAUTION:
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ PRECAUTION OF LASER DIODE

CAUTION: This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pick up lens.

Wave length: 780 nm
Maximum output radiation power from pick up: 100 μW/VDE

Laser radiation from the pick up lens is safety level, but be sure the followings:

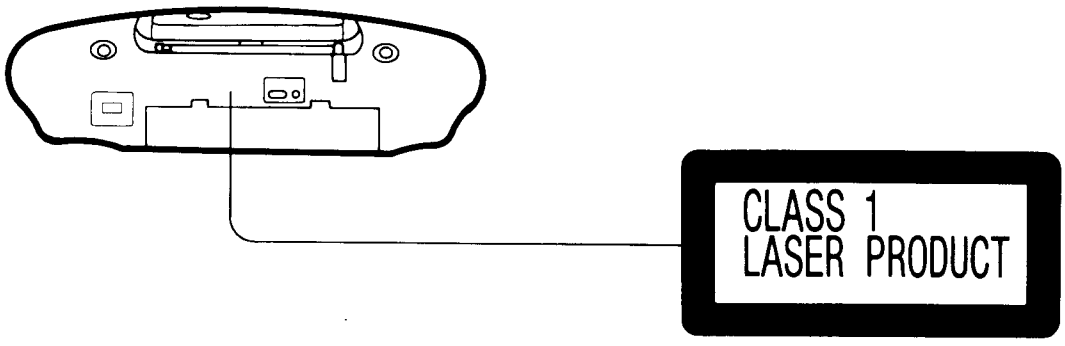
1. Do not disassemble the optical pick up unit, since radiation from exposed laserd diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

ACHTUNG: Dieses produkt enthält eine laserdiode. Im eingeschalteten zustand wird unsichtbare laserstrahlung von der lasereinheit abgestrahlt.

Wellenlänge: 780 nm
Maximale strehlungsleistung der lasereinheit: 100 μW/VDE

Die strahlung an der lasereinheit ist ungefährlich, wenn folgende punkte beachtet werden:

1. Die lasereinheit nicht zerlegen, da die strahlung an der freigelegten laserdiode gefährlich ist.
2. Den werksseitig justierten einstellregler der lasereinreit nicht verstellen.
3. Nicht mit optischen instrumenten in die fokussierlinse blicken.
4. Nicht über längere zeit in die fokussierlinse blicken.



LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

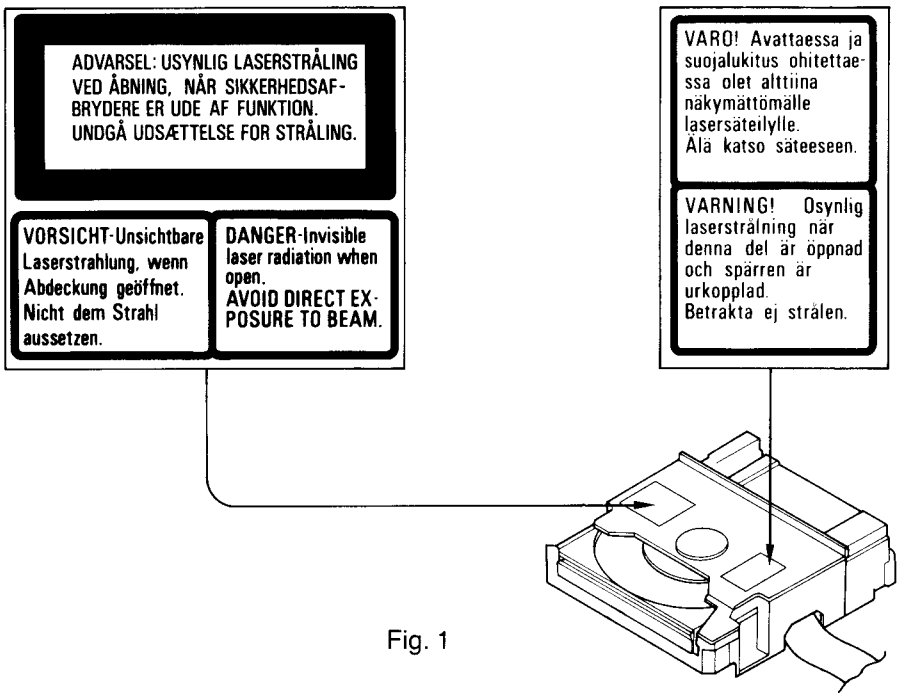
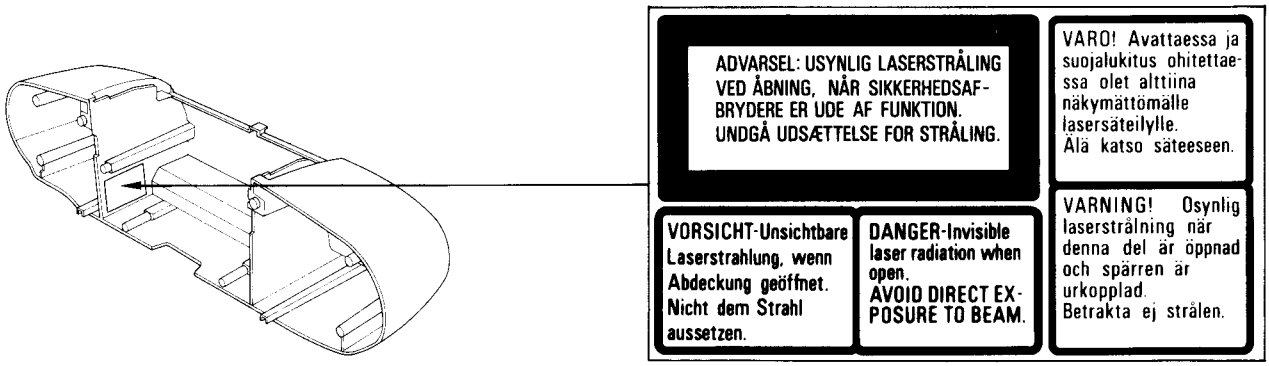

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAF-BRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT-Unsichtbare Laserstrahlung, wenn Abdeckung geöffnet. Nicht dem Strahl aussetzen.
DANGER-Invisible laser radiation when open. AVOID DIRECT EX-POSURE TO BEAM.
VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

Fig. 1


ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAF-BRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
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VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

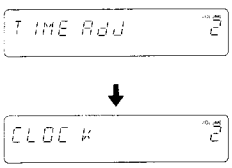
Fig. 2

■ TIME ADJUSTING

Before operation, press the operation switch to turn on the unit.

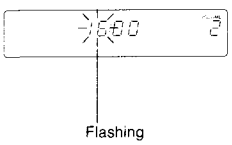
For example:
To set the time at 16:20.

1. Press the timer mode button, and then turn the jog dial to select the "CLOCK" mode.
   The display will change to "P-TIMER"–"R-TIMER"–"SLEEP"–"CLOCK".

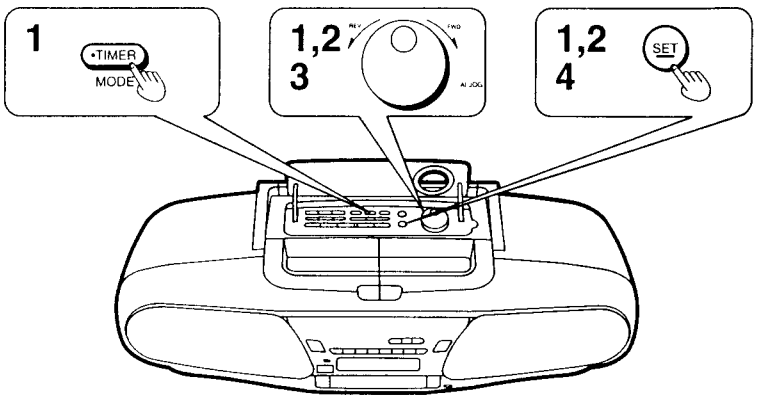


   Press the SET button.

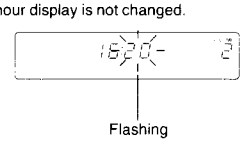
2. Turn the jog dial to adjust the correct hour display.
   FWD: Increase.
   REV: Decrease.



   Press the SET button.



3. Turn the jog dial to adjust the correct minute display.
   Note that the minute "00" display appears following "59", but the hour display is not changed.



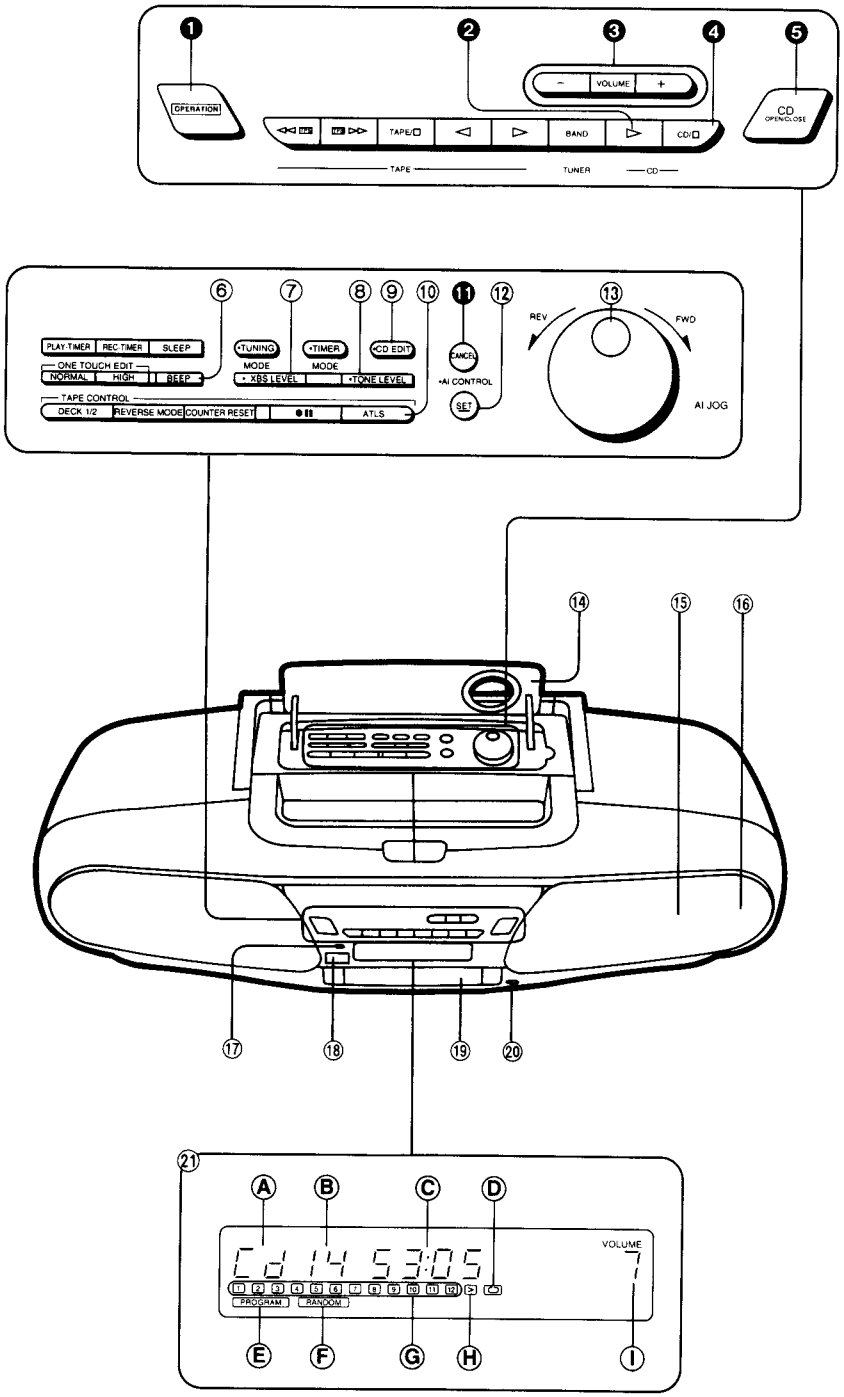
4. Press the SET button to finish setting the time.
   The display will change to the previous display.

   When the SET button is pressed, the clock is reset to "0" second.
   When a wrong operation occurs while operations of steps 1~3, press the cancel button, then the unit is returned to the previous mode.

■ LOCATION OF CONTROLS

The functions indicated by the numbers with black back ground (for example ❶) can also be activated from the remote control transmitter. (See page 6.)

•CD/GENERAL CONTROLS



❶ **Operation switch (OPERATION)**

❷ **Play button (▷)**
Press this button to start the disc play.

❸ **Volume control (VOLUME)**

❹ **CD mode/stop button (CD/□)**
Press this button to listen to CD or to stop the CD playing.

❺ **CD open/close button (CD OPEN/CLOSE)**

⑥ **Beep sound button (BEEP)**
The beep sound (beep) will be emitted each time the operation button is pressed. The beep function can be turned on and off by pressing the beep button.

⑦ **Extra bass system button (XBS LEVEL)**

⑧ **Tone level button (TONE LEVEL)**

⑨ **Compact disc edit button (CD EDIT)**
Press this button to select the desired edit mode.

⑩ **Automatic tape level setting button (ATLS)**
Press this button to begin the recording from a CD.

⓫ **Cancel button (CANCEL)**

⑫ **SET button (SET)**

⑬ **Jog dial (AI JOG)**

⑭ **Panel cover**

⑮ **Speakers [Woofer] (10 cm, 2.7Ω)**

⑯ **Speakers [Tweeter] (2 cm)**

⑰ **Operation/battery check/AC connection indicator (OPR/BATT-STANDBY ⏻)**
The indicator lights green when the unit is turned on. It functions as a battery check indicator when the unit is operated on batteries. When the AC mains supply is used, it functions as an AC connection indicator. (The indicator colour changes to red when the unit is turned off.)

⑱ **Remote control sensor**

⑲ **Disc tray**

⑳ **Headphones jack (PHONES) (∅3.5, 32Ω)**

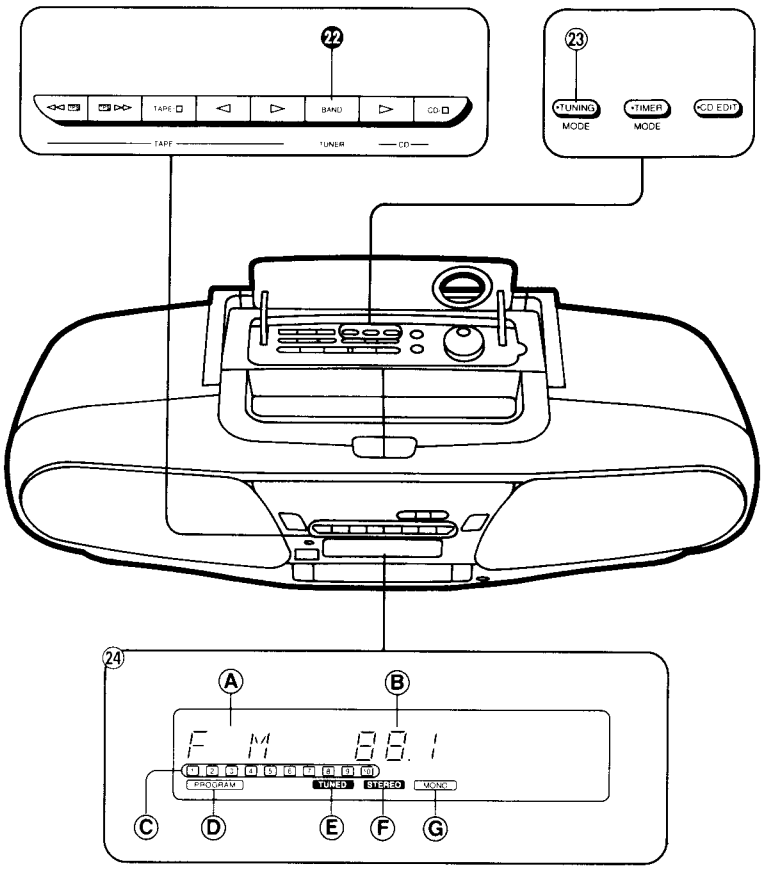
㉑ **Display section**
A: CD mode indicator (Cd)
B: Track display
C: Playing time display
D: Repeat indicator (↻)
E: Program indicator (PROGRAM)
F: Random indicator (RANDOM)
G: Music matrix
H: Over mark indicator (>)
I: Volume level display (VOLUME)

•TUNER CONTROLS

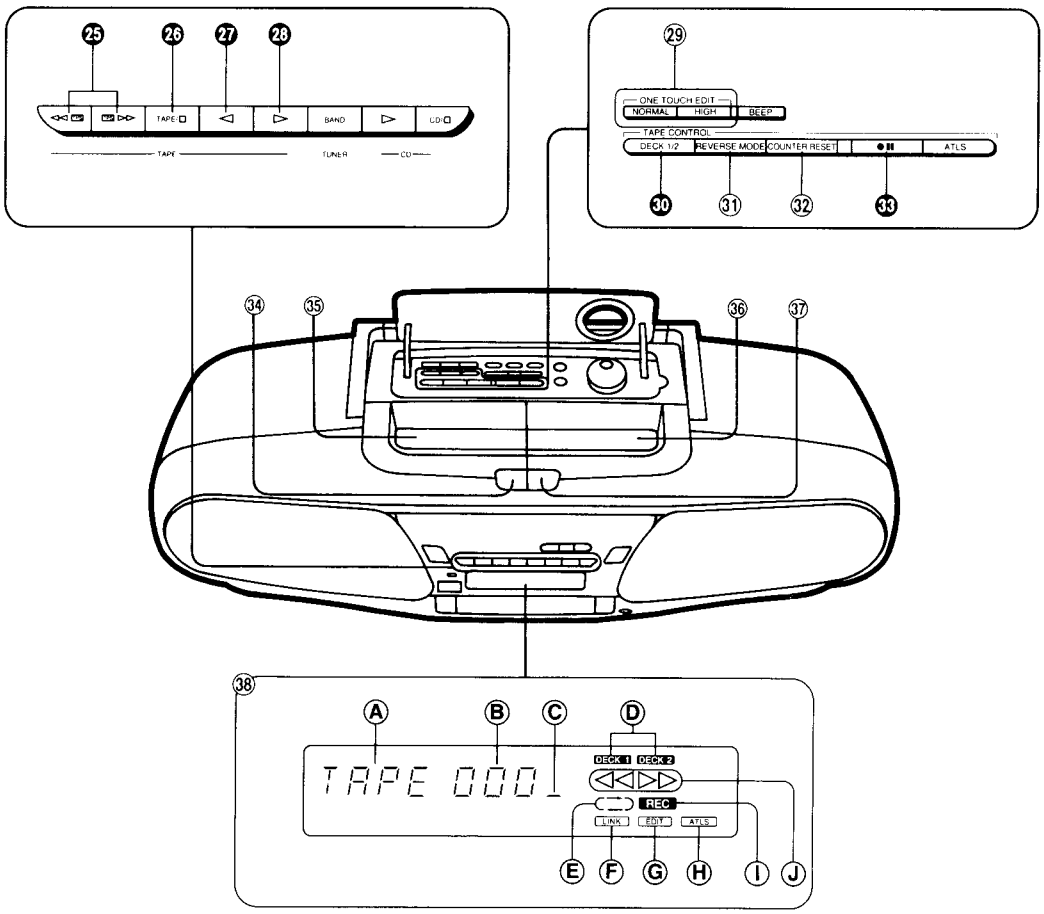
㉒ Tuner band button (TUNER, BAND)
Press this button to select the desired radio band.

㉓ Tuning mode button (TUNING MODE)

㉔ Display section
- **A: Band indicator (FM/LM/MW)**
- **B: Frequency display**
- **C: Channel number indicators**
- **D: Program indicator (PROGRAM)**
- **E: Tuning indicator (TUNED)**
- **F: Stereo indicator (STEREO)**
- **G: Monaural indicator (MONO)**
  If the FM mode/beat proof button on the remote control unit is used to select monaural mode, this indicator will appear.



•DECK CONTROLS



㉕ **Fast/tape program sensor buttons (◁◁ TPS ▷▷)**
Press one of these buttons to fast forward or rewind the tape during stop condition, or to skip to the beginning of the next or present tune during playback.

㉖ **Tape mode/stop button (TAPE/□)**
Press this button to listen to tapes or to stop the tape.

㉗ **Reverse-side playback button (◁)**
Press this button to begin the playback (or recording) from the reverse side of the tape.

㉘ **Forward-side playback button (▷)**
Press this button to begin the playback (or recording) from the forward side of the tape.

㉙ **Edit recording buttons (ONE TOUCH EDIT)**
Press one of these buttons to start the synchronized edit recording.

㉚ **Deck selector (DECK 1/2)**
Press this button to select the operation deck (deck 1 or 2).

㉛ **Reverse mode select button (REVERSE MODE)**

㉜ **Counter reset button (COUNTER RESET)**
Press this button to reset the tape counter.

㉝ **Rec-pause button (● ❚❚)**

㉞ **Deck 1 cassette eject button (▲ EJECT)**

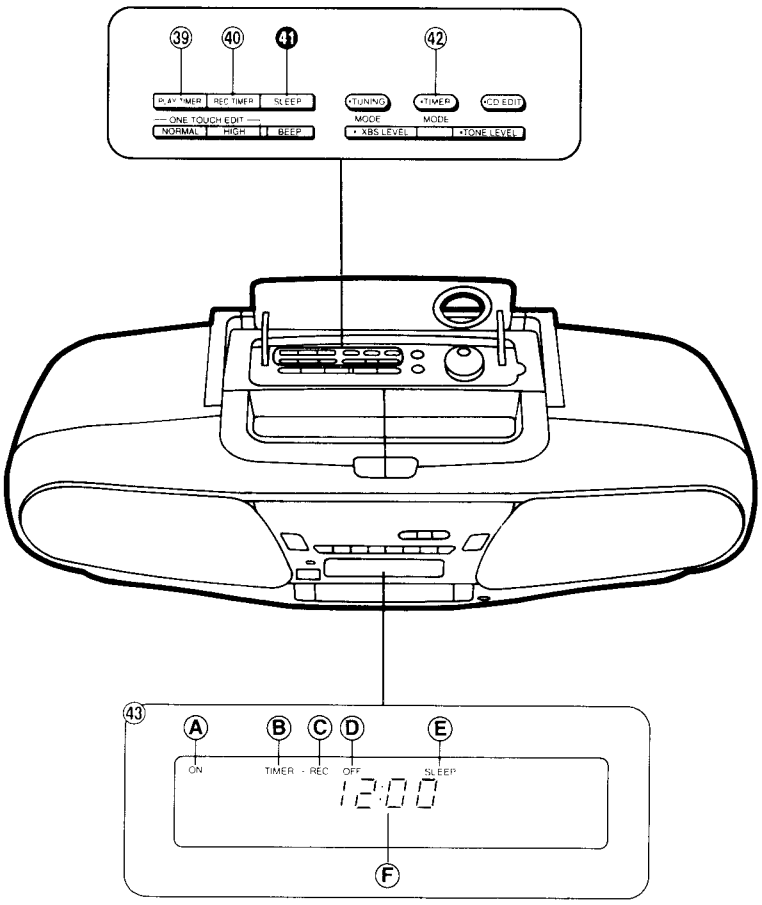
㉟ **Deck 1 cassette compartment cover**

㊱ **Deck 2 cassette compartment cover**

㊲ **Deck 2 cassette eject button (▲ EJECT)**

㊳ **Display section**
- **A: Tape mode indicator (TAPE)**
- **B: Tape counter**
- **C: Running indicator**
- **D: Deck 1/2 indicators (DECK 1 DECK 2)**
- **E: Reverse mode indicator (⊂⊃)**
- **F: Link edit indicator (LINK)**
- **G: Edit indicator (EDIT)**
- **H: Automatic tape level setting indicator (ATLS)**
- **I: Recording indicator (REC)**
- **J: Tape direction indicators (◁◁ ▷▷)**

•TIMER CONTROLS



㊴ **Timer play button (PLAY-TIMER)**
Press this button for timer play.

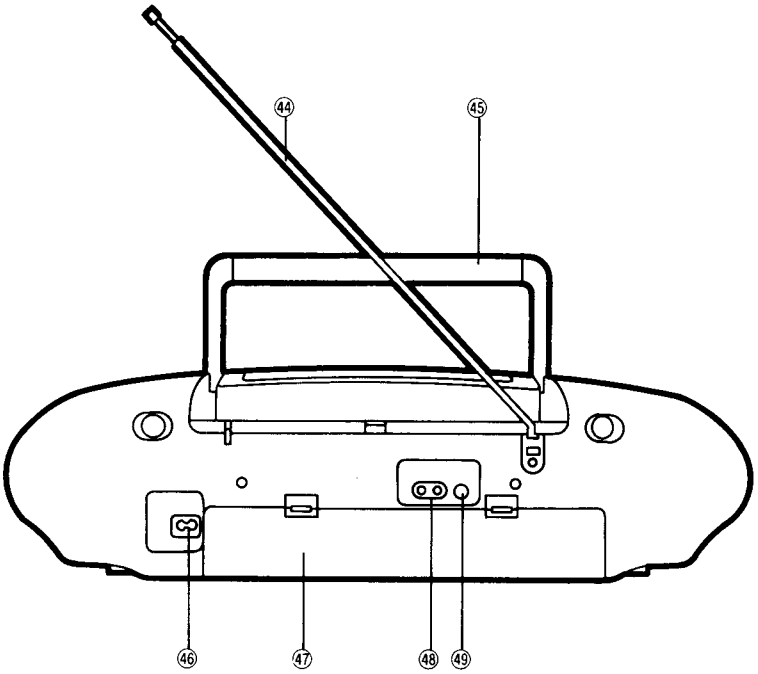
㊵ **Timer recording button (REC-TIMER)**
Press this button for timer recording.

㊶ **Sleep button (SLEEP)**
Press this button when you wish to fall asleep while listening to music.

㊷ **Timer mode button (TIMER MODE)**

㊸ **Display section**
- **A: Timer ON indicator (ON)**
- **B: Timer play indicator (TIMER)**
- **C: Timer recording indicator (TIMER-REC)**
- **D: Timer OFF indicator (OFF)**
- **E: Sleep timer indicator (SLEEP)**
- **F: Time display**

•REAR PANEL SECTION



㊹ Telescopic antenna

㊺ Handle

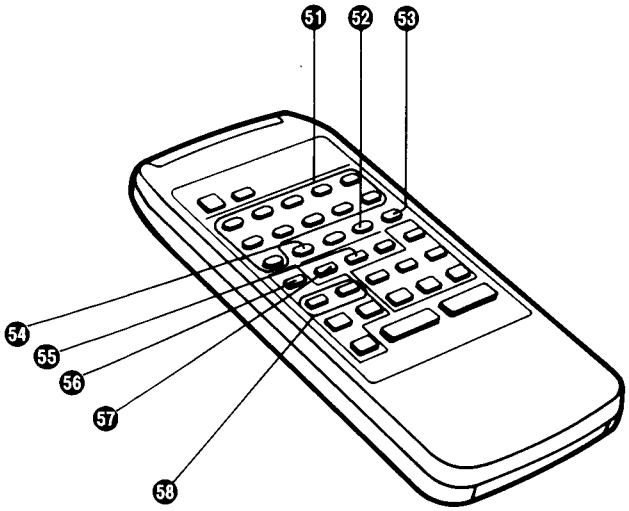
㊻ AC socket (AC IN~)

㊼ Battery compartment cover

㊽ CD output jacks (CD OUT) (1 V, CD 0 dB)

㊾ Mixing microphone jack (MIX MIC) (∅3.5, 200~600Ω)

•REMOTE CONTROL OPERATION



50 Numeric buttons (1–10/0, +10)
These buttons are used to specify the CD's track (1–10, +10), and select the preset memory channel of the tuner (1–10).

51 Random button (RANDOM)
Press this button to let the microcomputer make a random selection of the sequence.

52 Repeat button (REPEAT)
Press this button to activate the repeat mode. The repeat indicator will appear.

53 Program button (PROGRAM)
Press this button for CD program-play and for preset memory of the tuner.

54 FM mode/beat proof button (FM MODE/B.P)
The functions of this button change according to the selected radio band.
LW/MW: Beat proof (for recording from the LW/MW radio)
FM: MONO/STEREO

55 Pause button (❚❚)
Press this button to stop the disc temporarily.

56 Display button (DISPLAY)
Press this button when you wish to confirm the present time while listening to CD, radio and tape.

57 Skip/search buttons (⏮/◀◀ • ▶▶/⏭)
Press one of these buttons to skip (backward or forward) the tracks, or to search (backward or forward) the desired portion of the disc.

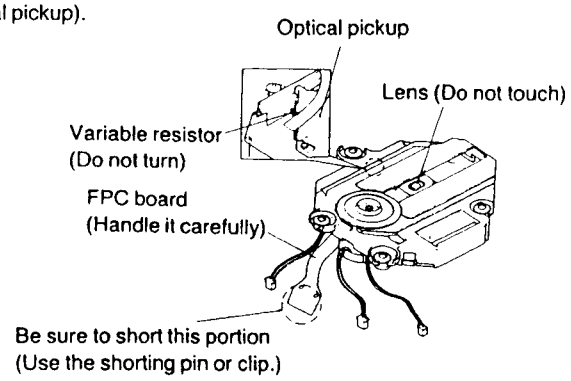
Note:
Please refer to "LOCATION OF CONTROLS" for the controls not described above.

■ HANDLING PRECAUTIONS FOR TRAVERSE DECK

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

•Handling of traverse deck (optical pickup)

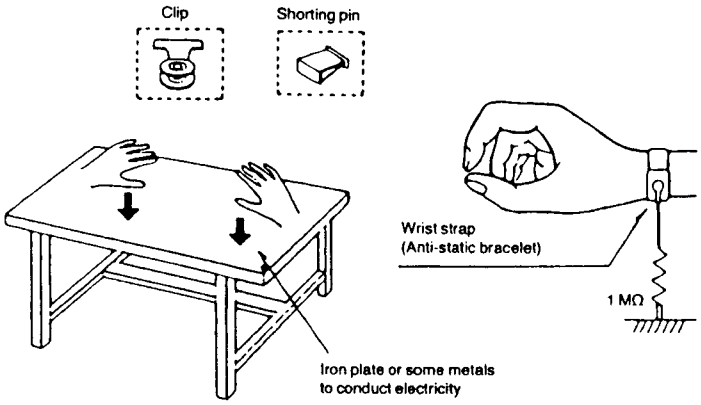
1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an anti-static shorting pin is inserted into the flexible board (FPC board). When removing or connecting the short pin, finish the job in as short time as possible.
3. Take care not to apply excessive stress to the flexible board (FPC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



•Grounding for electrostatic breakdown prevention

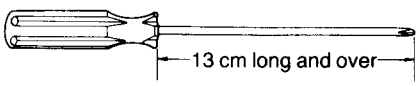
1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution:
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

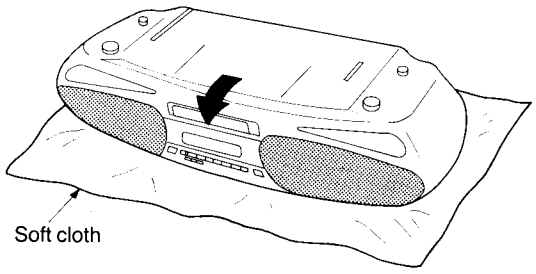


■ DISASSEMBLY INSTRUCTIONS

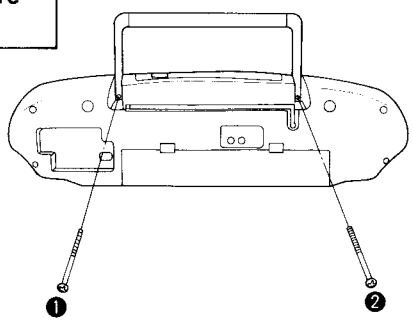
•Use a Phillips screwdriver whose blade is 13 cm long and over to remove screws fixing the rear cabinet.



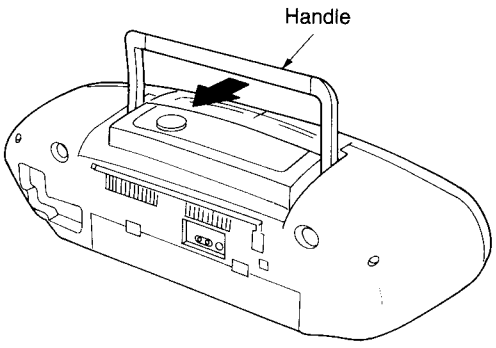
•Be sure to place the unit on soft cloth or similar material to prevent scratches when disassembling it.



Ref. No. 1	Removal of the Handle
Procedure 1	

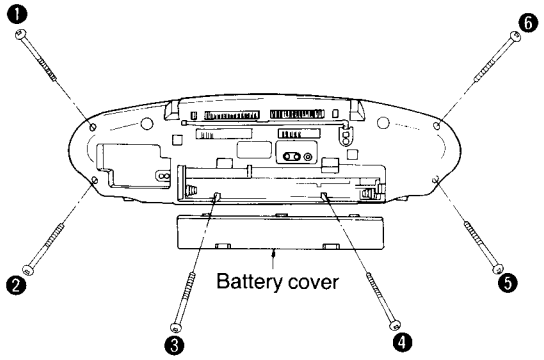


1. Remove 2 screws (❶, ❷).



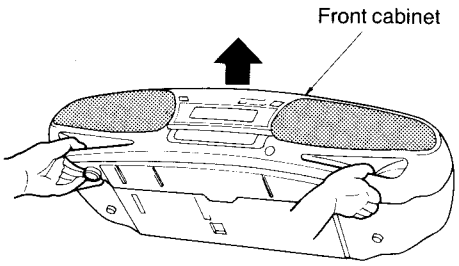
2. Slide out the handle in the direction of the arrow.

Ref. No. 2	Removal of the Front Cabinet
Procedure 1→2	

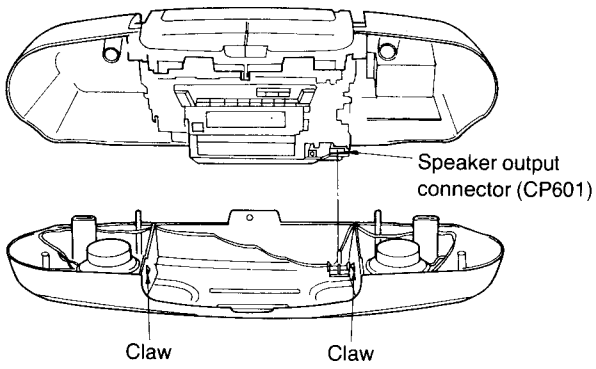


1. Remove the battery cover.
2. Remove 6 screws (❶~❻).

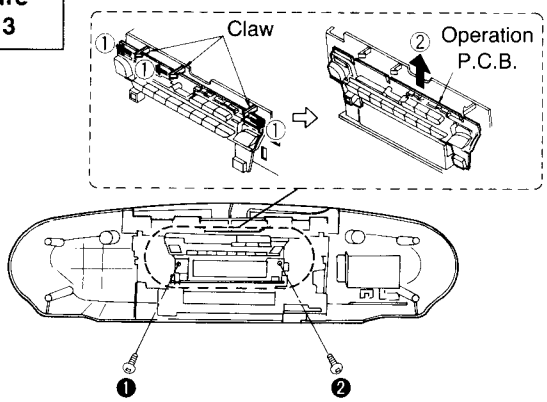
Notes:
- Note that the two claws (shown in the right figure) hook the front cabinet when removing the front cabinet.
- Be careful not to bend pins of the speaker output connector (CP601).



3. Remove the front cabinet.

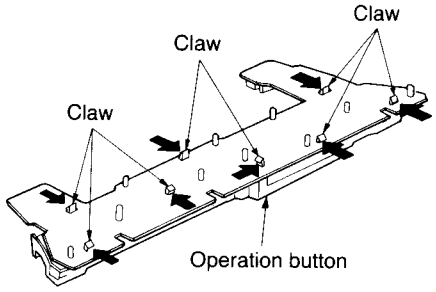


Ref. No. 3	Removal of the Operation P.C.B.
Procedure 1→2→3	



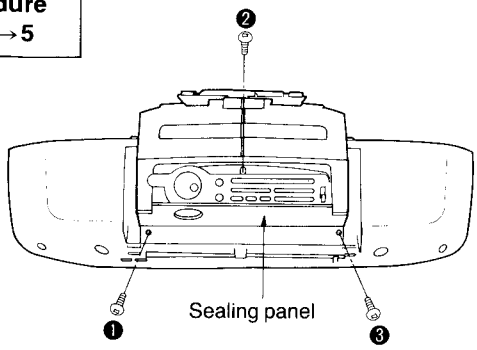
1. Remove 2 screws (❶, ❷).
2. Release 3 claws in the direction of arrow ①.
3. Remove the operation P.C.B. in the direction of arrow ②.

Ref. No. 4	Removal of the Operation Button
Procedure 1→2→3→4	

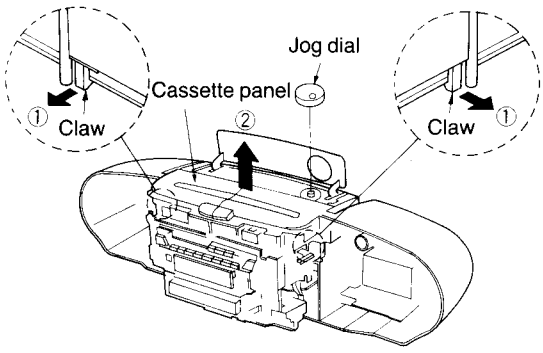


- Release 8 claws in the direction of arrows.

Ref. No. 5	Removal of the Cassette Panel
Procedure 1→2→5	

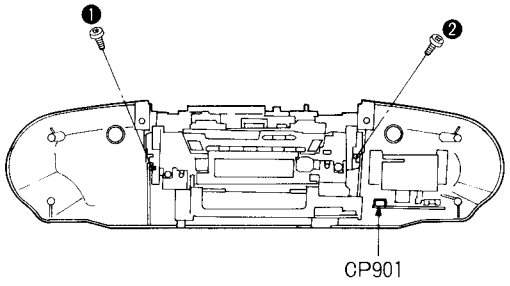


1. Open the sealing panel.
2. Remove 3 screws (❶~❸).

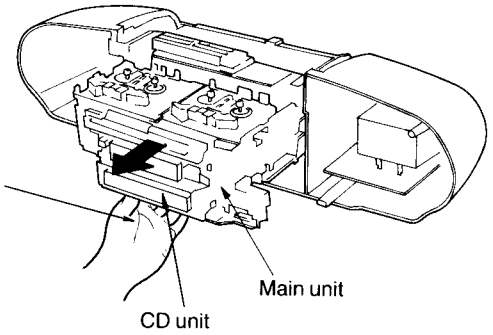


3. Pull out the jog dial.
4. Release 2 claws in the direction of arrow ①.
5. Remove the cassette panel in the direction of arrow ②.

Ref. No. 6	Removal of the Main Unit
Procedure 1→2→5→6	

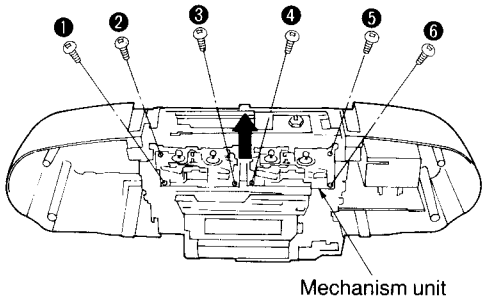


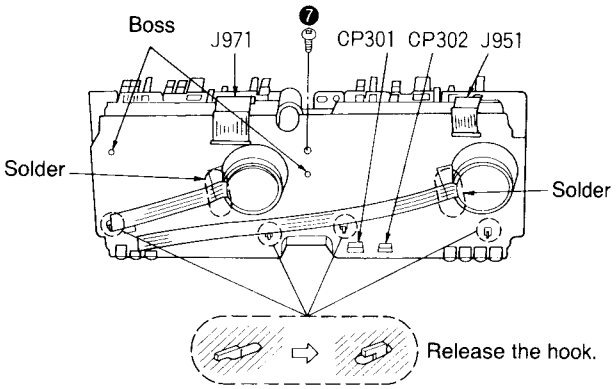
1. Release the connector (CP901).
2. Remove 2 screws (❶, ❷).



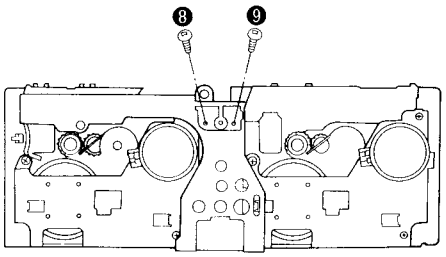
3. Since the CD unit is not mounted on the main unit, be sure to hold the CD unit so as not to slip it down and remove it from rear cabinet as shown above.

Ref. No. 7	Removal of the Mechanism Unit
Procedure 1→2→5→7	

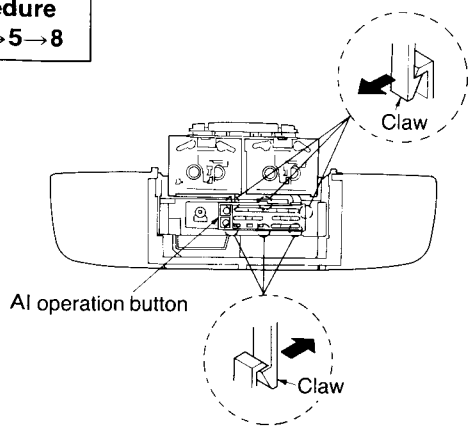




1. Remove 6 screws (❶~❻).
2. Remove the mechanism unit.
3. Release 4 connectors (J951, J971, CP301, CP302).
4. Resolder 2 solders.
5. Remove the screw (❼).
6. Release 2 bosses.
7. Release 4 hooks.
8. Remove 2 screws (❽, ❾).

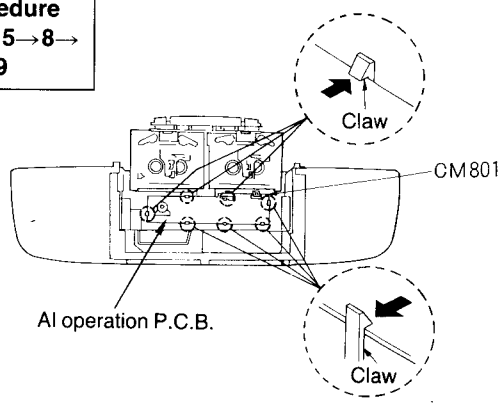


Ref. No. 8	Removal of the AI Operation Button
Procedure 1→2→5→8	



●Release 6 claws in the direction of arrows.

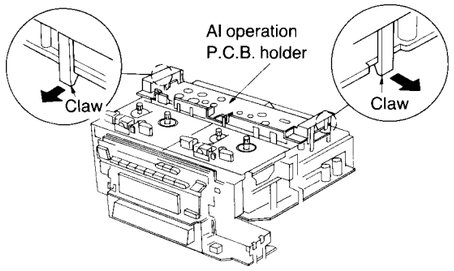
Ref. No. 9	Removal of the AI Operation P.C.B.
Procedure 1→2→5→8→ 9	



1. Release the connector (CM801).
2. Release 7 claws in the direction of arrows.

Ref. No. 10 — Removal of the AI Operation P.C.B. Holder

Procedure 1→2→5→6→ 8→9→10

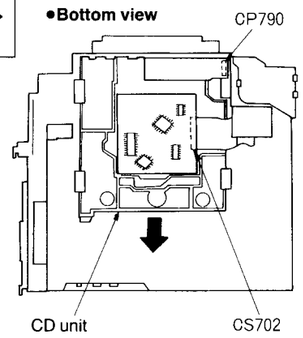


●Release 2 claws in the direction of arrows.

Ref. No. 11 — Removal of the CD Unit

Procedure 1→2→5→6→ 11

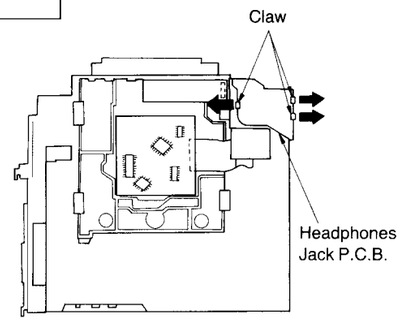
●Bottom view



1. Release 2 connectors (CP790, CS702).
2. Remove the CD unit in the direction of arrow.

Ref. No. 12 — Removal of the Headphones Jack P.C.B.

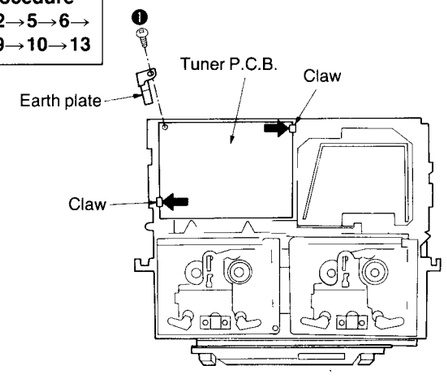
Procedure 1→2→5→6→ 12



●Release 3 claws in the direction of arrows.

Ref. No. 13 — Removal of the Tuner P.C.B.

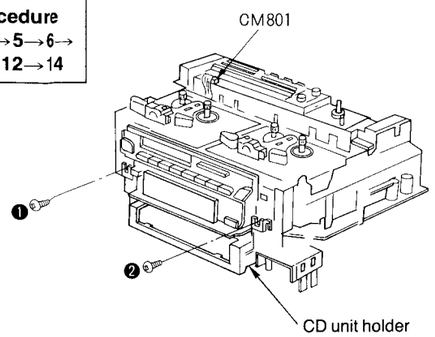
Procedure 1→2→5→6→ 8→9→10→13



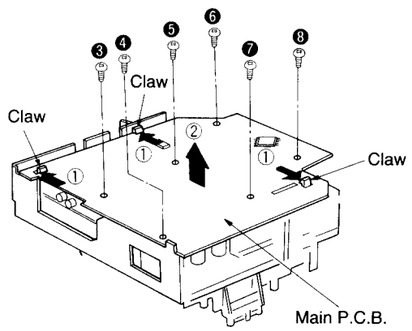
1. Remove the screw (❶).
2. Remove the earth plate.
3. Release 2 claws in the direction of arrows.

Ref. No. 14 — Removal of the Main P.C.B.

Procedure 1→2→5→6→ 11→12→14



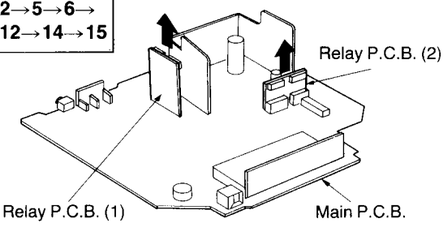
1. Release the connector (CM801).
2. Remove 2 screws (❶, ❷).
3. Remove the CD unit holder.



4. Remove 6 screws (❸~❽).
5. Release 3 claws in the direction of arrow ①.
6. Remove the main P.C.B. in the direction of arrow ②.

Ref. No. 15 — Removal of the Relay P.C.B. (1) and Relay P.C.B. (2)

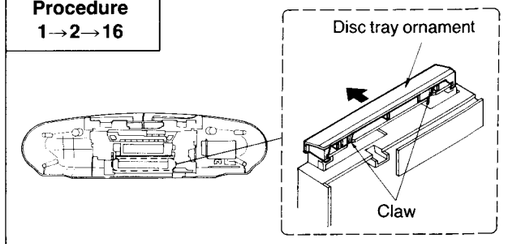
Procedure 1→2→5→6→ 11→12→14→15



●Remove the relay P.C.B. (1) and relay P.C.B. (2) in the direction of arrow.

Ref. No. 16 — Removal of the Disc Tray Ornament

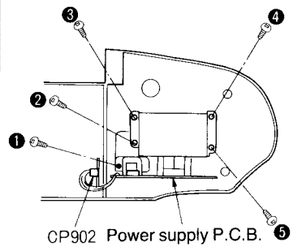
Procedure 1→2→16



●Release 2 claws and remove the disc tray ornament in the direction of arrow.

Ref. No. 17 — Removal of the Power Supply P.C.B.

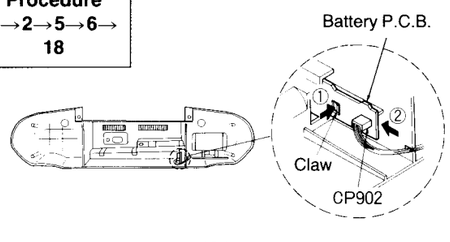
Procedure 1→2→5→6→ 17



1. Release the connector (CP902).
2. Remove 5 screws (❶~❺).

Ref. No. 18 — Removal of the Battery P.C.B.

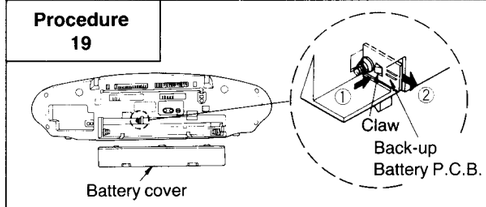
Procedure 1→2→5→6→ 18



1. Release the connector (CP902).
2. Remove the battery P.C.B. in the direction of arrow ② by keeping the claw pressed in the direction of arrow ①.

Ref. No. 19 — Removal of the Back-up Battery P.C.B.

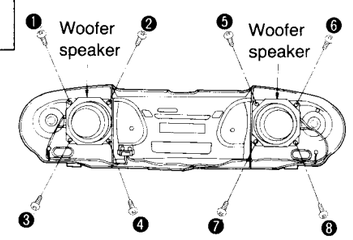
Procedure 19



1. Remove the battery cover.
2. Remove the back-up battery P.C.B. in the direction of arrow ② by keeping the claw pressed in the direction of arrow ①.

Ref. No. 20 — Removal of the Woofer Speaker

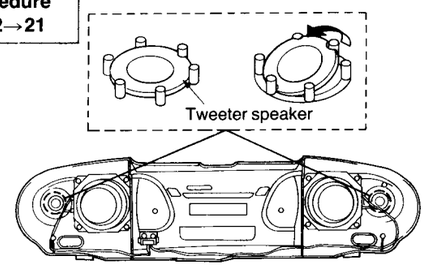
Procedure 1→2→20



●Remove 8 screws (❶~❽).

Ref. No. 21 — Removal of the Tweeter Speaker

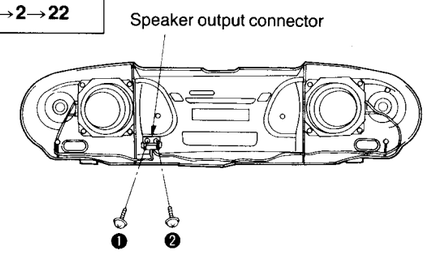
Procedure 1→2→21



●Remove the tweeter speaker in the direction of arrow.

Ref. No. 22 — Removal of the Speaker Output Connector

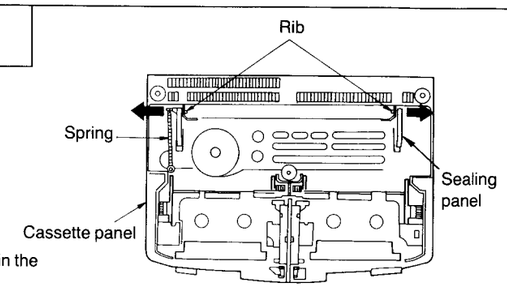
Procedure 1→2→22



●Remove 2 screws (❶, ❷).

Ref. No. 23 — Removal of the Sealing Panel

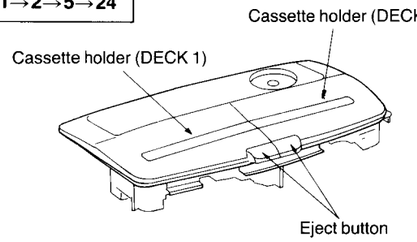
Procedure 1→2→5→23



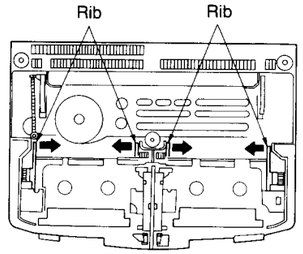
1. Remove the spring.
2. Remove the sealing panel by keeping the 2 ribs pressed in the direction of arrow.

Ref. No. 24 — Removal of the Cassette Holder

Procedure 1→2→5→24



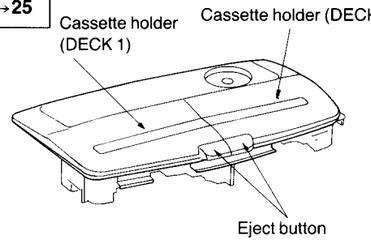
1. Press the eject button and then open the cassette holder.



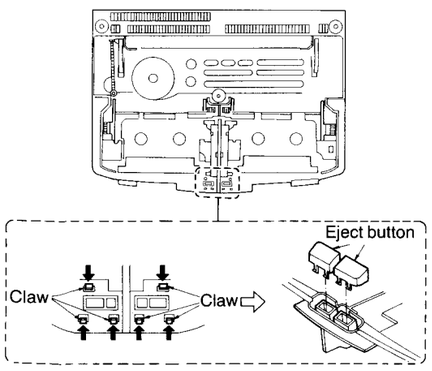
2. Remove the cassette holder by keeping the ribs pressed in the direction of arrow.

Ref. No. 25 — Removal of the Eject Lever, Eject Button and Eject Rod

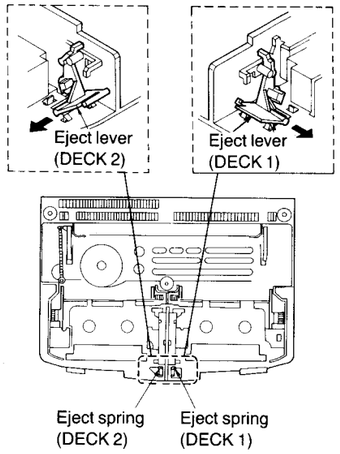
Procedure 1→2→5→25



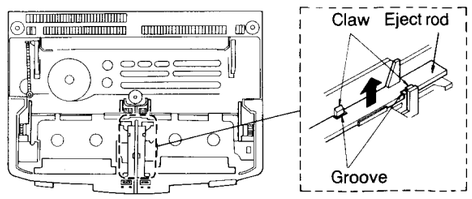
1. Press the eject button to open the cassette holder (DECK 1 and DECK 2).



4. Release 6 claws in the direction of arrow.
5. Remove the eject button.



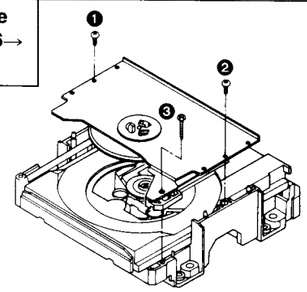
2. Remove the eject spring.
3. Remove the eject lever in the direction of arrow.



6. Fit the claw into the groove of the eject rod.
7. Remove the eject rod in the direction of arrow.

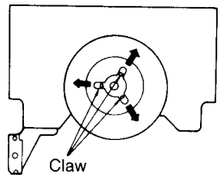
Ref. No. 26 — Removal of the Disc Clamper

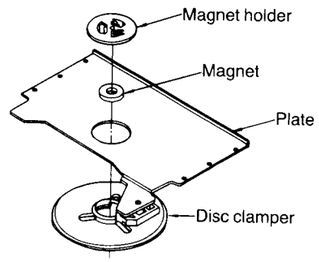
Procedure 1→2→5→6→11→26



●Remove 3 screws (❶~❸).

Disassembly of the disc clamper

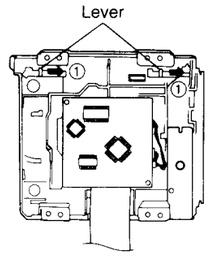




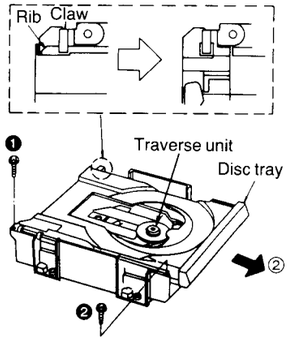
1. Release 3 claws in the direction of arrows.
2. Disassemble the disc clamper as shown above.

Ref. No. 27 — Removal of the Disc Tray

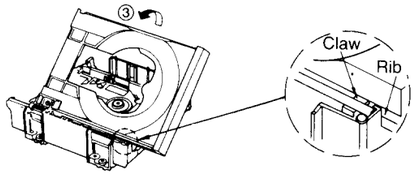
Procedure 1→2→5→6→11→26→27



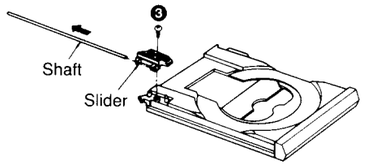
1. Slide the lever fully in the direction of arrow ①. (The traverse unit goes down.)



2. Remove the disc tray slightly in the direction of arrow ② to unfasten the claw and the rib.
3. Remove 2 screws (❶, ❷).



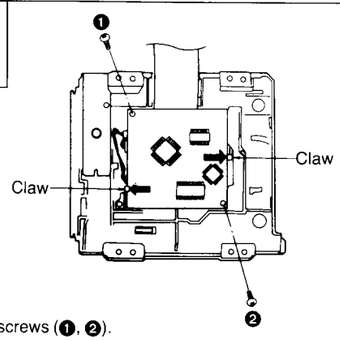
4. Lift the disc tray in the direction of arrow ③.
5. Unfasten the rib from the claw of the chassis.



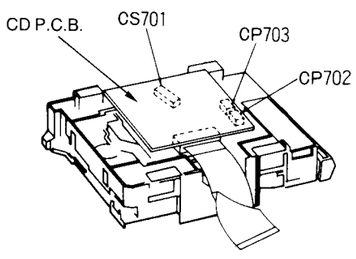
6. Remove the screw ❸.
7. Remove the slider and the shaft.

Ref. No. 28 — Removal of the CD P.C.B.

Procedure 1→2→5→6→11→28



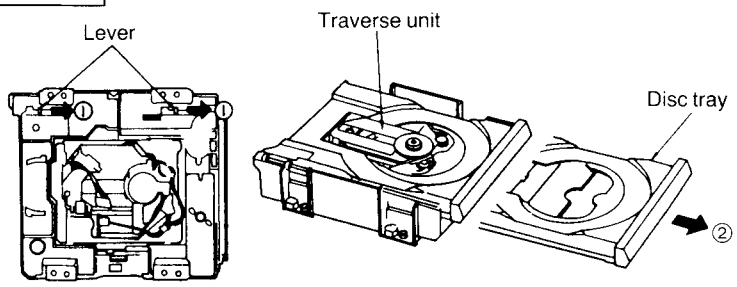
1. Remove 2 screws (❶, ❷).
2. Release 2 claws in the direction of arrows.

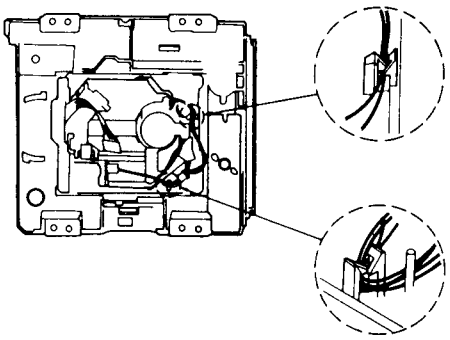


3. Lift the CD P.C.B.
4. Release 3 connectors (CS701, CP702, CP703).

Ref. No. 29	Removal of the Traverse Unit

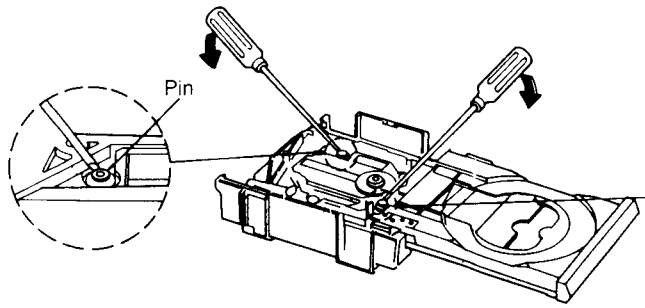
Procedure
1→2→5→6→ 11→26→27→29

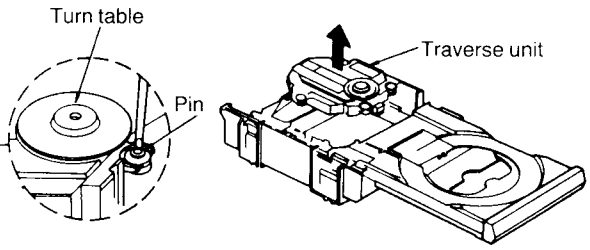




1. Slide the lever in the direction of arrow ①.
2. After the lever is slid, the traverse unit goes down. Slide the disc tray in the direction of arrow ②.
3. Slide the disc tray fully in the direction of arrow ②.

4. Remove the lead wires.



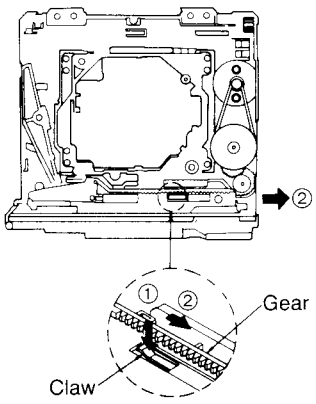


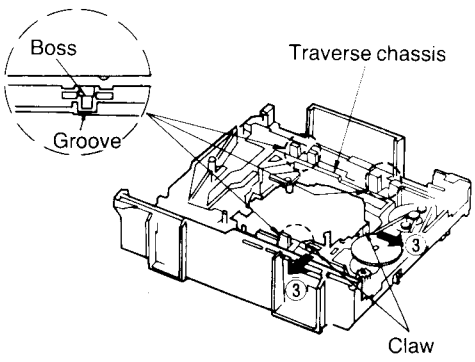
5. Remove the two pins using a regular screwdriver. (Be especially careful not to scratche the turntable.)

6. Lift the traverse unit.

Ref. No. 30	Removal of the Traverse Chassis

Procedure
1→2→5→6→ 11→26→27→28 →29→30



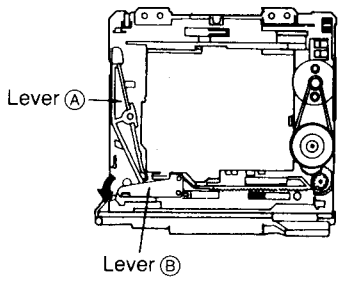


1. Slide the gear in the direction of arrow ② by holing the claw pressed in the direction of arrow ①. (It is enough to slide the gear but very little.)

2. Make sure that the bosses are fit in the 3 grooves of the traverse chassis.
3. Lift the traverse chassis by keeping the two claws pressed in the direction of arrow ③.

Ref. No. 31	Removal of the Lever Ⓐ

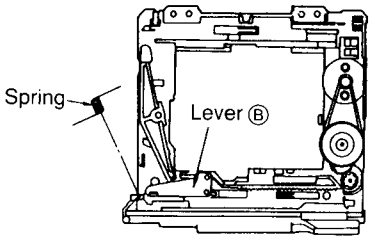
Procedure
1→2→5→6→
11→26→27→28→
29→30→31



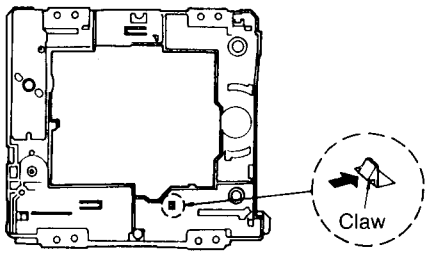
•Remove the lever Ⓐ by keeping the lever Ⓑ pressed in the direction of arrow.

Ref. No. 32	Removal of the Lever Ⓑ

Procedure
1→2→5→6→
11→26→27→28→
29→30→31→32



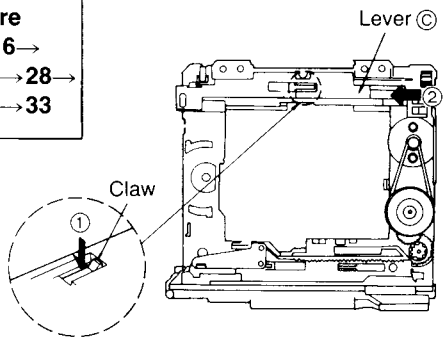
1. Remove the spring.



2. Release the claw in the direction of arrow.

Ref. No. 33	Removal of the Lever Ⓒ

Procedure
1→2→5→6→
11→26→27→28→
29→30→32→33

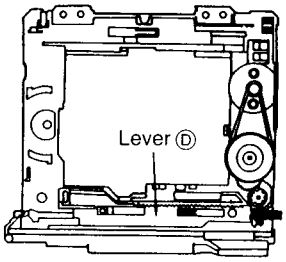


•Remove the lever Ⓒ in the direction of arrow ② by keeping the claw pressed in the direction of arrow ①.

Ref. No. 34	Removal of the Lever Ⓓ

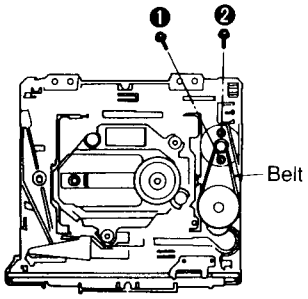
Procedure
1→2→5→6→
11→26→27→28→
29→30→31→32→
33→34

•Slide the lever Ⓓ fully in the direction of arrow and pull out the lever Ⓓ.

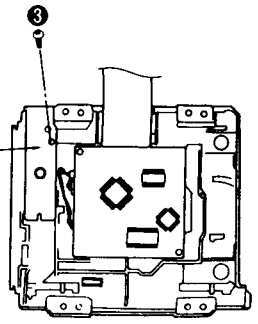


Ref. No. 35	Removal of the Loading Motor and Loading switch

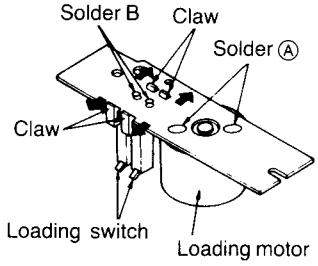
Procedure
1→2→5→6→
11→26→27→35



1. Remove the belt.
2. Remove 2 screws (❶, ❷).

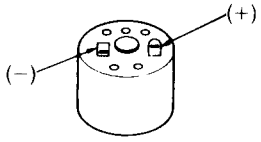


3. Remove the screw (❸) and remove the loading motor.

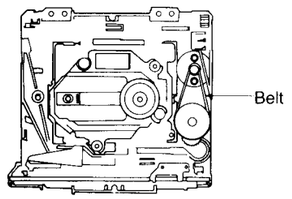


4. Resolder the 2 solders Ⓐ.
   Remove the loading motor.
5. Resolder the solder B and release 4 claws in the direction of arrow.
   Remove the loading switch.

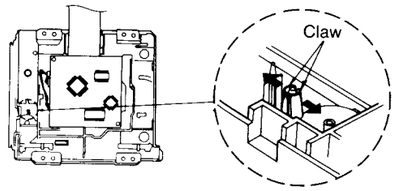
Loading motor terminal



Ref. No. 36	Removal of the Loading Pulley and Loading Gear
Procedure 1→2→5→6→ 11→26→27→36	

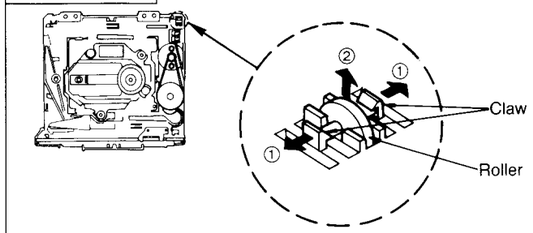


1. Remove the belt.

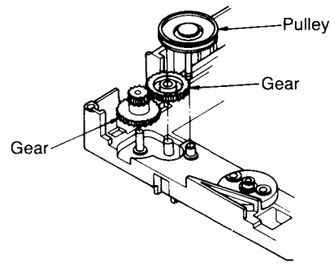


2. Release 2 claws in the direction of arrow.

Ref. No. 37	Removal of the Loading Roller
Procedure 1→2→5→6→ 11→26→27→37	

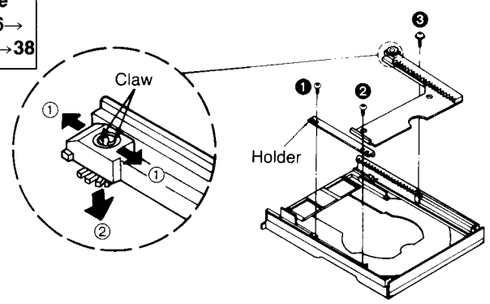


- Remmove the Loading roller in the direction of arrow ② by keeping the 2 claws pressed in the direction of arrow ①.



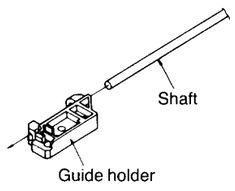
3. Remove the pulley and gear.

Ref. No. 38	Disassembly of the Disc Tray
Procedure 1→2→5→6→ 11→26→27→38	

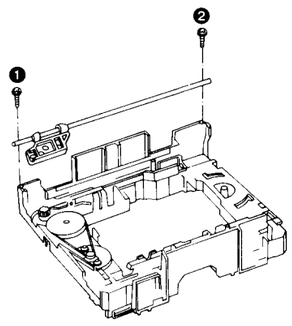


1. Remove 3 screws (❶–❸).
2. Remove the gear in the direction of arrow ② by keeping the 2 claws pressed in the direction of the arrow ①.

•INSTALLING OF SHAFT

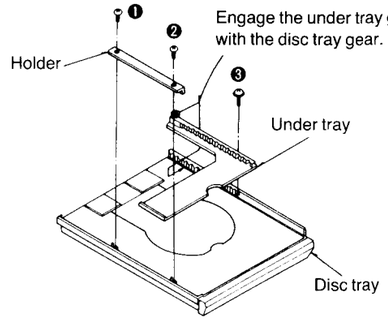


1. Insert the shaft into the guide holder.
2. Install the shaft on the chassis with the 2 screws (❶, ❷).

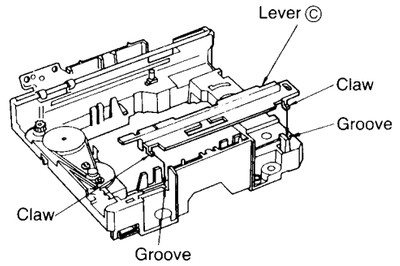


•INSTALLING DISC TRAY UNIT

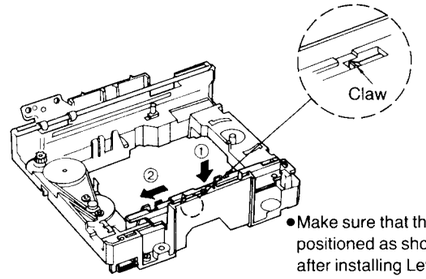
1. Install the under tray on the disc tray.
2. Install the holder on the disc tray with the two screws ❶ and ❷.
3. Screw the under tray on the disc tray ❸.
   Make sure that the under tray moves smoothly after installing the disc tray unit.



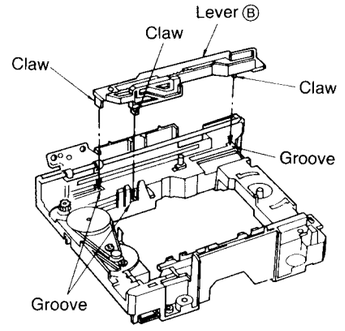
•CD UNIT ASSEMBLY



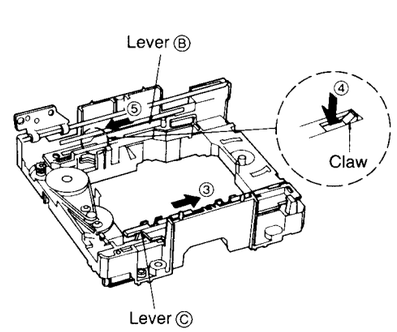
1. Install Lever Ⓒ on the chassis by fitting the claws of Lever Ⓒ in the two grooves of the chassis.



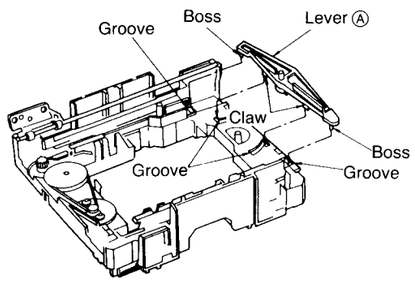
2. Slide Lever Ⓒ in the direction of arrow ② while keeping it held down lightly in the direction of arrow ①.



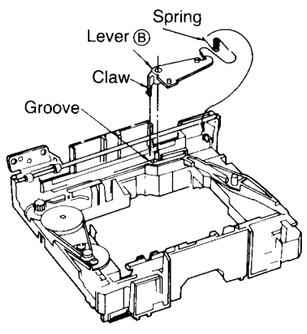
3. Install Lever Ⓑ on the chassis by fitting the claws of Lever Ⓑ in the three grooves of the chassis as shown above.



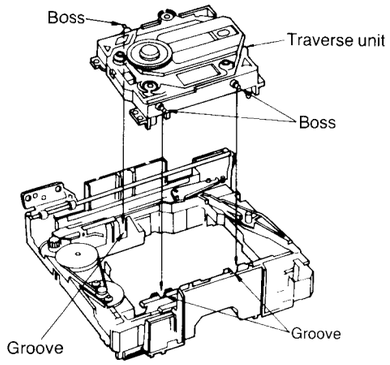
4. Slide Lever Ⓒ fully in the direction of arrow ③.
5. Keep holding down the claw in the direction of arrow ④ and slide Lever Ⓑ in the direction of arrow ⑤ to stop. (Slide but very little.)



6. Install Lever Ⓐ on the chassis by fitting the two claws of Lever Ⓐ in the two grooves of the chassis and the two bosses in the two grooves as shown above.

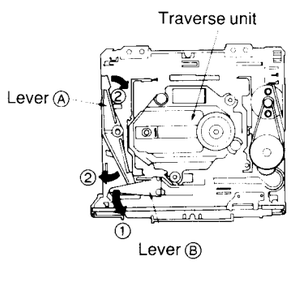


7. Install Lever Ⓑ on the chassis by fitting the claw of Lever Ⓑ in the groove of the chassis.
8. Install the spring on Lever Ⓑ and the chassis.

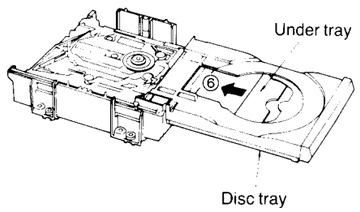


9. Install the traverse unit on the chassis by fitting the three bosses of the traverse unit in the three grooves of the chassis.

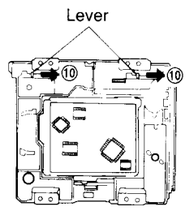
•INSTALLING DISC TRAY



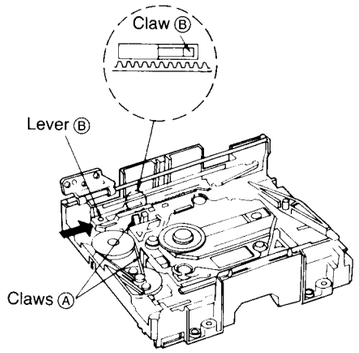
1. Move Lever Ⓑ in the direction of arrow ① and Lever Ⓐ in the direction of arrow ②. (The traverse unit rises.)



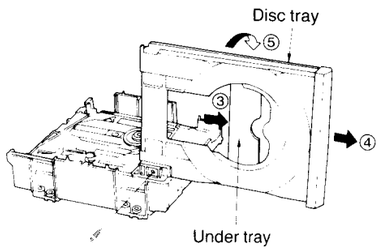
6. Slider the under tray in the direction of arrow ⑥.
7. Hold the disc tray and slide the under tray fully in the direction of arrow ⑥. (Slide but very little and the loading gear is engaged with disc tray gear.)



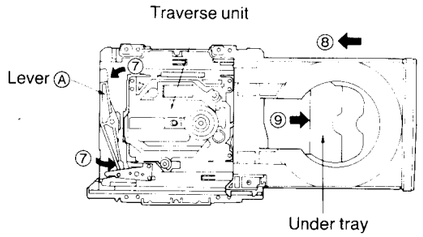
10. Slide the lever in the direction of arrow ⑩ and check if the traverse unit rises in the direction of arrow ⑪.



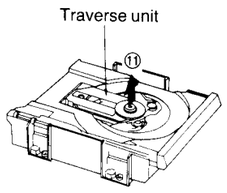
10. Make sure that the traverse unit is engaged with the two claws Ⓐ.
11. Slide Lever Ⓑ in the direction of the arrow. Be sure to check if claw Ⓑ is set as shown above. (Slide Lever Ⓑ but very little.)



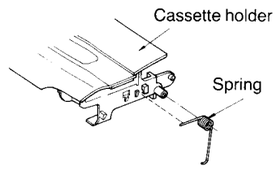
2. Screw the disc tray on the slider as shown above.
3. Slide the under tray fully in the direction of arrow ③.
4. Slide the disc tray fully in the direction of arrow ④.
5. Lay the disc tray down in the direction of arrow ⑤.



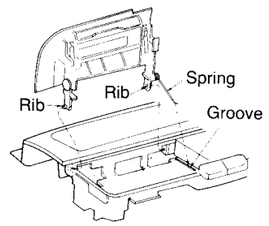
8. Move Lever Ⓐ in the direction of arrow ⑦. (The traverse unit is lowered.)
9. Slide the disc tray in the direction of arrow ⑧. (Make sure that the under tray is moved in the direction of arrow ⑨.)



•INSTALLATION OF CASSETTE HOLDER

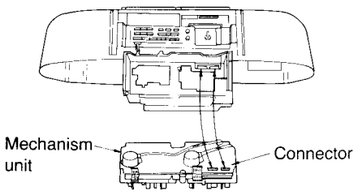


1. Install the spring of the cassette holder.



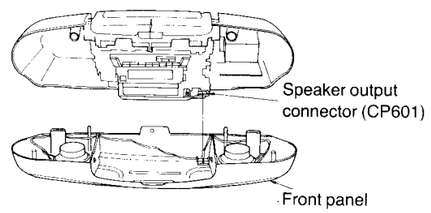
2. Fit the spring of the cassette holder into the groove.
3. Fix the rib.

•INSTALLATION OF MECHANISM UNIT



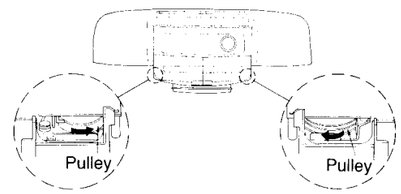
1. Install the mechanism unit by connecting the connectors correctly.

•INSTALLATION OF FRONT PANEL



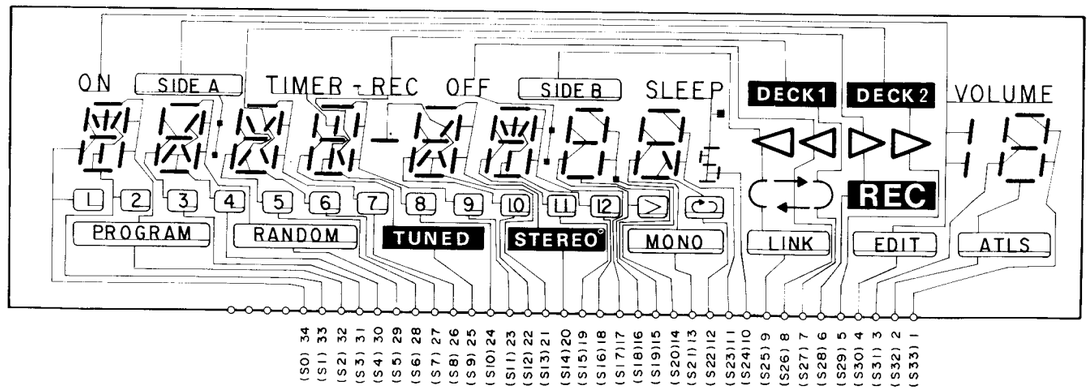
•Install the front panel by connecting the speaker connector correctly.

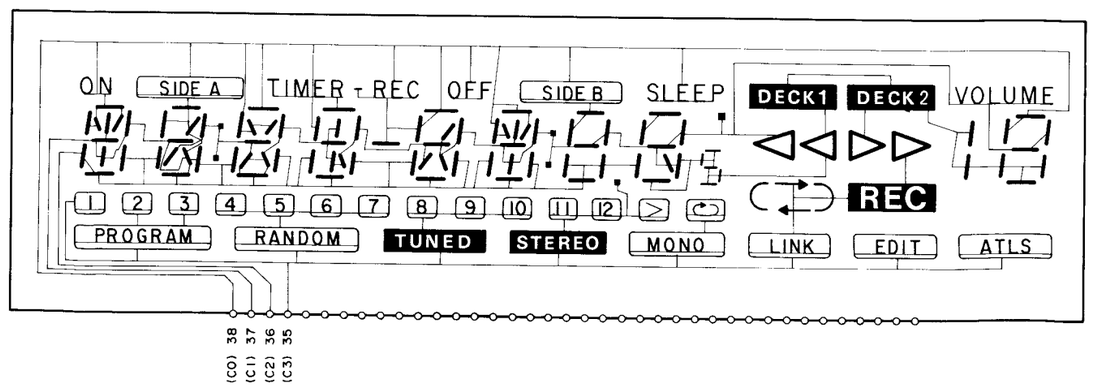
•MEASURE FOR TAPE TROUBLE



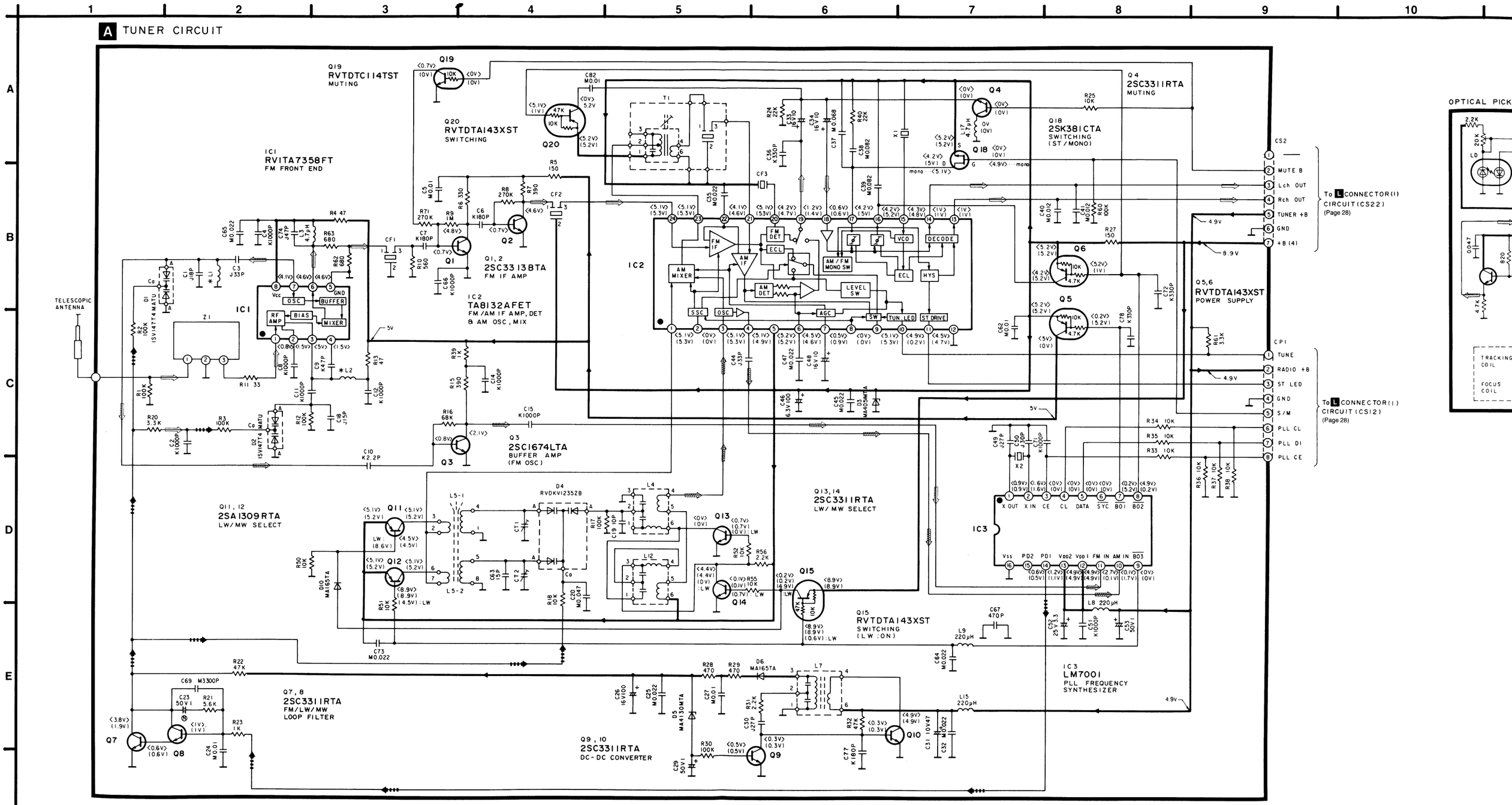
If a cassette tape cannot be removed from the deck since the tape is caught by the capstan or pinch roller during playback or recording, rotate the pulley in the direction of the arrow to remove the tape.

■ LCD





■ SCHEMATIC DIAGRAM •TUNER/CD CIRUIT (Parts list on pages 67~73.)



Notes:

<for Tuner circuit>
- No switches or VRs.

<for CD circuit>
- S701 : Rest switch.
- VR701 : Best eye adjustment VR.

- CD voltage measurements are taken with electronics voltmeter. The negative terminal of the battery provides negative meter connection point.

( )...LW/MW < >...FM (( ))...CD

- **This schematic diagram may be modified at any time with the development of new technology.**

: FM Signal Line
: LW/MW OSC Signal Line
: CD Signal Line
: FM OSC Signal Line
: FM/LW/MW Vcap Control Signal Line

10 11 12 13 14 15 16 17 18 19

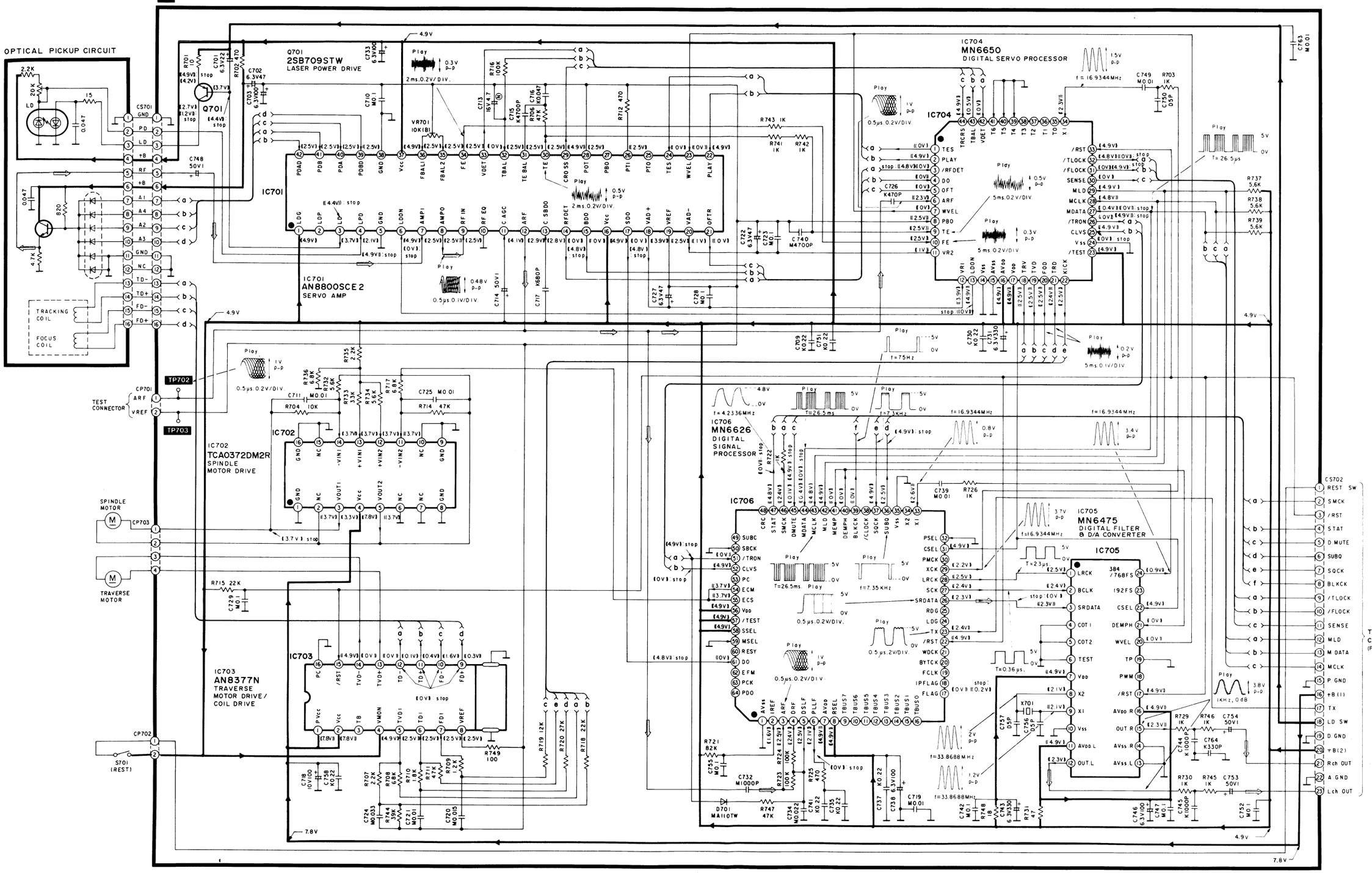
B CD CIRCUIT

OPTICAL PICKUP CIRCUIT

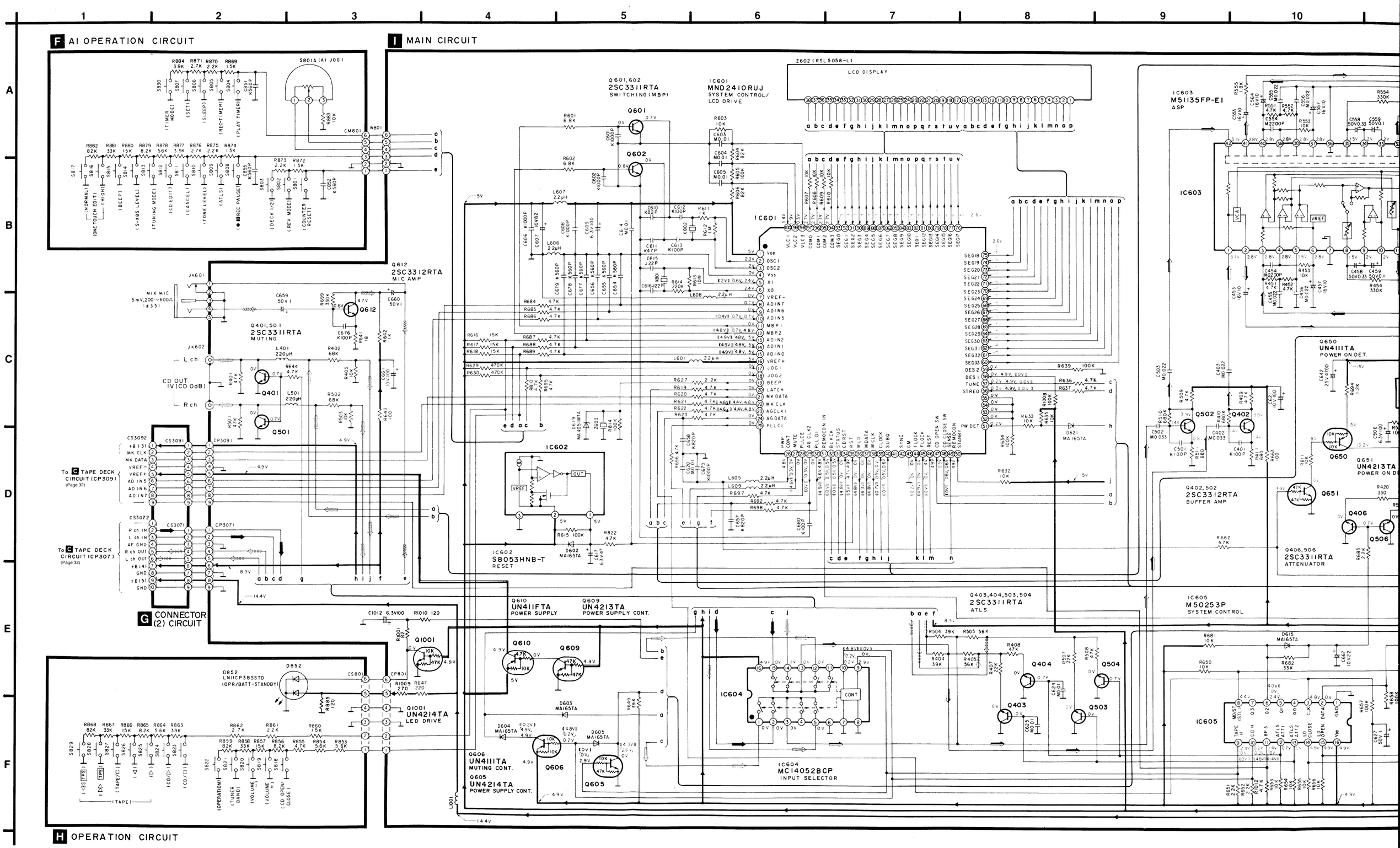
L CONNECTOR(I)
CUIT(CS22)
ge 28)

I CONNECTOR(I)
CUIT (CS12)
e 28)

nal Line



■ SCHEMATIC DIAGRAM •OPERATION/MAIN/RELAY/HEADPHONES/LOADING MOTOR/ POWER SUPPLY CIRCUIT (Parts list on pages 67~73.)


F AI OPERATION CIRCUIT
I MAIN CIRCUIT
G CONNECTOR (2) CIRCUIT
H OPERATION CIRCUIT
IC601 MN2410RUJ SYSTEM CONTROL/ LCD DRIVE
Q601,602 2SC3311RTA SWITCHING(MBP)
IC602 S8053HNB-T RESET
IC603 M51135FP-E1 ASP
IC604 MC14052BCP INPUT SELECTOR
IC605 M50253P SYSTEM CONTROL
Z602 (RSL5058-L) LCD DISPLAY
Q610 UN411FTA POWER SUPPLY
Q609 UN4213TA POWER SUPPLY CONT.
Q606 UN411ITA MUTING CONT.
Q605 UN4214TA POWER SUPPLY CONT.
Q612 2SC3312RTA MIC AMP
Q401,501 2SC3311RTA MUTING
Q1001 UN4214TA LED DRIVE
Q403,404,503,504 2SC3311RTA ATLS
Q650 UN411ITA POWER ON DET.
Q651 UN4213TA POWER ON DET.
Q402,502 2SC3312RTA BUFFER AMP
Q406,506 2SC3311RTA ATTENUATOR
MIX MIC 5mV,200~600Ω (φ3.5)
CD OUT 1V(CD 0dB)
To C TAPE DECK CIRCUIT (CP309) (Page 32)
To C TAPE DECK CIRCUIT (CP307) (Page 32)
D852 LN11CP38SSTD (OPR/BATT-STANDBY)
IC602 VREF OUT
IC603 VCA VREF
IC604 CONT
IC605 TAPE H MOST (STILL) CD H BP 3 ATLS 1 ATLS 2 ATLS 3 ATT2 LD CLOSE LD OPEN DATA Vss GND
Q404 Q403 Q504 Q503 Q502 Q402 Q651 Q406 Q506
D621 MA165TA D615 MA165TA D619 MA4051MTA D603 MA165TA D604 MA165TA D605 MA165TA D602 MA165TA
Z603 RB14 100K
S801A (AI JOG)
S801B (AI JOG)
(TIMER MODE) (SET) (SLEEP) (REC-TIMER) (PLAY TIMER)
(NORMAL) (ONE TOUCH EDIT) (HIGH) (BEEP) (S-XBS LEVEL) (TUNING MODE) (CD EDIT) (CANCEL) (TONE LEVEL) (ATLS) (●REC PAUSE) (DECK 1/2) (REV MODE) (COUNTER RESET)
(TAPE) (OPERATION) (TUNER BAND) (VOLUME -) (VOLUME +) (CD OPEN/CLOSE)
CS3092 CS3091 CP3091 CS3072 CS3071 CP3071 CS801 CP801
+B(13) MK CLK MK DATA VREF- VREF+ AD IN5 AD IN6 AD IN7 Rch IN Lch IN AF GND Rch OUT Lch OUT +B(14) GND +B(15) GND
SEG18 SEG19 SEG20 SEG21 SEG22 SEG23 SEG24 SEG25 SEG26 SEG27 SEG28 SEG29 SEG30 SEG31 SEG32 SEG33 DES2 DES1 TUNE STREO
Vdd OSC1 OSC2 Vss XT XO VREF- ADIN7 ADIN6 ADIN5 MBP1 MBP2 ADIN2 ADIN1 ADIN0 VREF+ JOG1 JOG2 BEEP LATCH MX DATA MX CLK AG DATA PLL CL
PWR CONT MUTE PLL CE AG CLK2 PLL DI REMOCON IN BLOCK STATUS CLOCK DATA MD MDATA MCLK CLOCK SUBQ SYNC CM TLOCK FLOCK RES CD OPEN SW CD CLOSE SW SENSE SW REMOCON STANDBY PW DET
14.4V 8.9V 5V 4.9V 2.6V

10 11 12 13 14 15 16 17 18 19

IC606
BA3930
POWER SUPPLY CONTROL

IC607
LA5605
POWER SUPPLY CONT.

IC608
AN7135
POWER AMP

IC609
S81250PGT
REGULATOR

Q650
UN4111TA
POWER ON DET.

Q651
UN4213TA
POWER ON DET.

Q406,506
2SC3311RTA
ATTENUATOR

Q405,505
2SC3311RTA
MUTING

Q607
2SA1309RTA
POWER SUPPLY

Q608
UN4111TA
MUTING CONT.

REGULATOR
D/A
VCA
VREF
LOGIC
ON/OFF CIRCUIT
POWER DET. 7.5V< Vcc HI 7.5V> Vcc LO
AMP
ERROR AMP
ERROR AMP

D609 RVDMTZ6R8BTA
D607 RVDMTZ6R8BTA
D620 MA165TA
D616 MA165TA
D615 MA165TA
D617 MA165TA
D618 RB441QT77

Z601
RCDGP1U58YD
(REMOTE SENSOR)

W601
W6011
JK603
HEADPHONES
32Ω (φ3.5)

CERAMIC SPEAKER(TWEETER) 2cm
PM DYNAMIC SPEAKER(WOOFER) 10cm, 2.7Ω
(L ch)
(R ch)
PM DYNAMIC SPEAKER(WOOFER) 10cm, 2.7Ω
CERAMIC SPEAKER(TWEETER) 2cm

J HEADPHONES CIRCUIT

K LOADING MOTOR CIRCUIT

IC790
TA7291S
MOTOR DRIVE

S790
(CLOSE)
(OPEN)
LOADING MOTOR

L CONNECTOR (1) CIRCUIT

CS7201
L ch IN
A.GND
R ch IN
+B (2)
D.GND
LD SW
TX
+B (1)
P.GND
MCLK
MDATA
MLD
SENSE
/FLOCK
/TLOCK
BLKCK
SQCK
SUBQ
D.MUTE
STAT
/RST
SMCK
REST SW

To B CD CIRCUIT (CS702) (Page 24)

To A TUNER CIRCUIT (CP1) (Page 22)

To A TUNER CIRCUIT(CS2) (Page 22)

CS11
CS12
TUNE
RADIO +B
ST LED
GND
S/M
PLL CL
PLL DI
PLL CE

CP21
CS21
MUTE B
L ch IN
R ch IN
TUNER +B
GND
+B(4) CS22

M POWER SUPPLY CIRCUIT

CW901
CP901
CW796
CP790
CP11
CS11
CS12
CP21
CS21

D901~904
IN5402B-M21

JK901
AC230-240V (50Hz)

W902
CP902
D906
ISS293TPE4

MEMORY BACK-UP FOR COMPUTER/CLOCK
BATTERY 4 UM-3
BATTERIES=6V
(R6P/LR6 OR EQUIVALENT)

MAIN
BATTERY 10 UM-1
BATTERIES=1.5V
(R20P/LR20 OR EQUIVALENT)

Notes:

<for Main/Operation/AI control circuit>

- ●S801A : AI jog dial. (AI JOG)
- ●S801 : Counter reset switch. (COUNTER RESET)
- ●S802 : Reverse mode select switch. (REVERSE MODE)
- ●S803 : Deck select switch. (DECK 1/2)
- ●S804 : Timer play switch. (REC-TIMER)
- ●S805 : Timer recording switch. (REC-TIMER)
- ●S806 : Sleep switch. (SLEEP)
- ●S807 : Set switch. (SET)
- ●S808 : Recording pause switch. (●❚❚)
- ●S809 : ATLS switch. (ATLS)
- ●S810 : Tone level control switch. (TONE LEVEL)
- ●S811 : Cancel switch. (CANCEL)
- ●S812 : CD edit switch. (DC EDIT)
- ●S813 : Tuning mode select switch. (TUNING MODE)
- ●S814 : S-XBS switch. (S-XBS)
- ●S815 : Beep on/off switch. (BEEP)
- ●S816 : Edit recording switch. (HIGH)
- ●S817 : Edit recording switch. (NORMAL)
- ●S818 : Disc tray open/close switch. (CD OPEN/CLOSE)
- ●S819 : Volume control switch. (VOLUME +)
- ●S820 : Volume control switch. (VOLUME −)
- ●S821 : Function select switch. (TUNER/BAND)
- ●S822 : Operation switch. (OPERATION)
- ●S823 : Function select switch. (CD/□)
- ●S824 : CD playback switch. (▷)
- ●S825 : Deck forward side playback switch. (▷)
- ●S826 : Deck reverse side playback switch. (◁)
- ●S827 : Function select switch. (TAPE/□)
- ●S828 : Deck fast/TPS switch. (TPS/▷▷)
- ●S829 : Deck fast/TPS switch. (◁◁/TPS)
- ●S830 : Timer mode select switch. (TIMER MODE)
- ●S901 : AC/DC select switch.

<for Tape deck/Mechanism (deck 1/2) circuit>

- ●S951 : Deck 1 mode detect switch.
- ●S952 : Deck 1 cassette tape insertion detect switch.
- ●S953 : Deck 1 CrO_2 tape detect switch.
- ●S971 : Deck 2 mode detect switch.
- ●S972 : Deck 2 cassette tape insertion detect switch.
- ●S973 : Deck 2 record prevention tab detect switch. (REV)
- ●S974 : Deck 2 record prevention tab detect switch. (FWD)
- ●S975 : Deck 2 CrO_2 tape detect switch.
- ●VR301 : Deck 2 tape speed adjustment VR. (HIGH)
- ●VR302 : Deck 2 tape speed adjustment VR. (NORMAL)
- ●VR303 : Deck 1 tape speed adjustment VR. (NORMAL)

General

- ●DC voltage measurements are taken with electronics voltmeter.
  The negative terminal of the battery provides negative meter connection point.

No mark...TAPE PLAYBACK (DECK 2) ⌜ ⌟...TUNER (( ))...CD [[ ]]...AUX

- ●Battery current:

Vol.min.....	220 mA (LW/MW)	Vol.max	560 mA (LW/MW)
	230 mA (FM)		880 mA (FM)
	310 mA (TAPE)		1500 mA (TAPE)
	440 mA (CD)		1700 mA (CD)

Measurement instruction

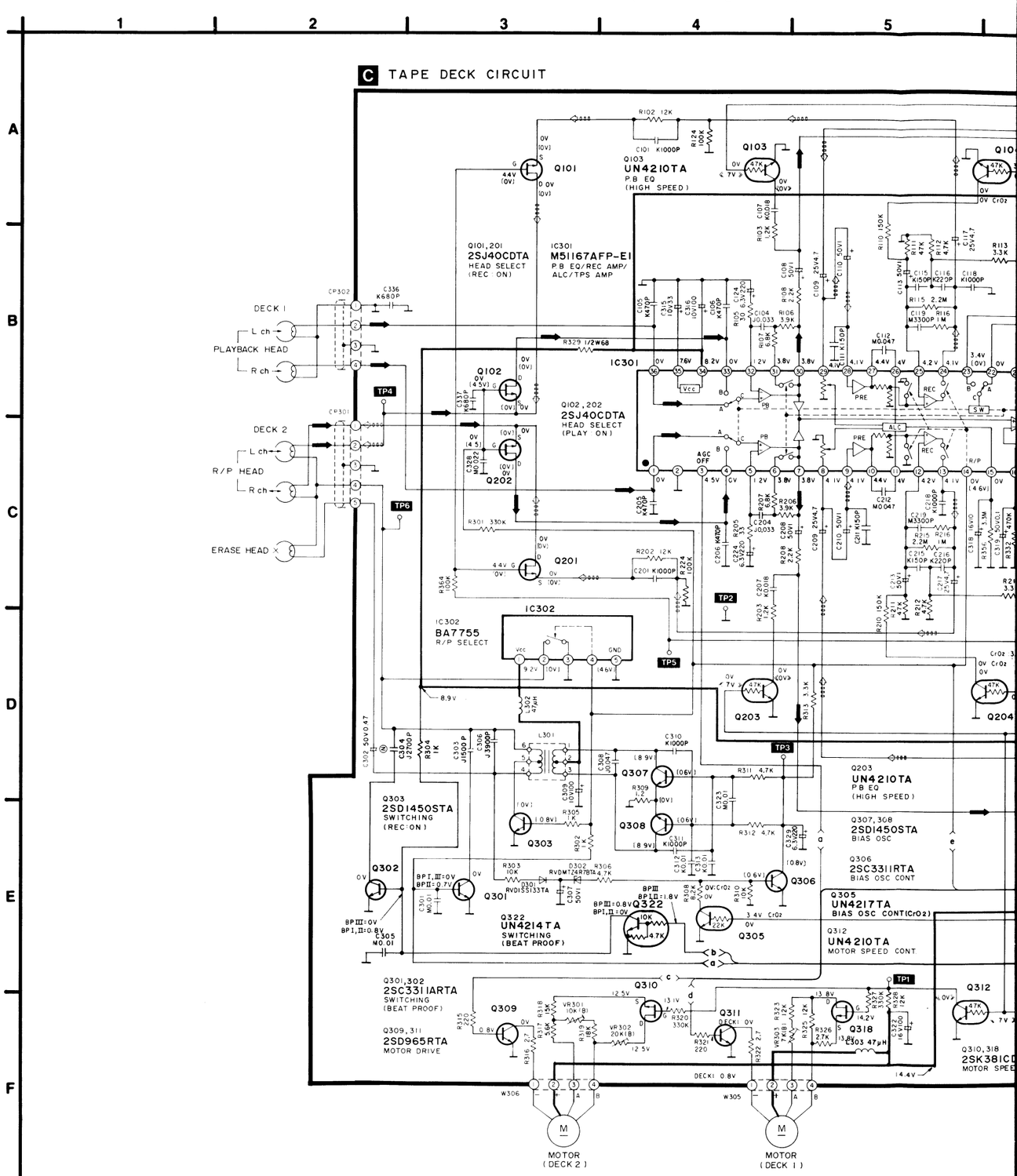
LW/MW	: 74 dB/m, 30% Mod.
FM	: 60 dB, 30% Mod.
TAPE	: 315 Hz, 0 dB
CD	: 1 kHz, 0 dB

- ●Important safety notice
  Components identified by ⚠ mark have special characteristics impotant for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
  When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- ●**This schematic diagram may be modified at any time with the development of new technology.**

: FM Signal Line
: AF Signal Line
: Mic Signal Line
: Tape Playback Signal Line
: CD Signal Line
: Recording Signal Line
: +B Line

■ SCHEMATIC DIAGRAM ●TAPE DECK/MECHANISM CIRCUIT (Parts list on Pages 67~73.)



7~73.)

5 6 7 8 9 10 11 12 13 14

Q104
UN4210TA
REC EQ
(CrO2)

Q105
UN4210TA
REC EQ
(HIGH SPEED)

Q205
UN4210TA
REC EQ
(HIGH SPEED)

Q204
UN4210TA
REC EQ
(CrO2)

Q203
UN4210TA
P.B EQ
(HIGH SPEED)

Q307, 308
2SD1450STA
BIAS OSC

Q306
2SC3311RTA
BIAS OSC CONT.

Q305
UN4217TA
BIAS OSC CONT(CrO2)

Q312
UN4210TA
MOTOR SPEED CONT.

Q310, 318
2SK381CDTA
MOTOR SPEED CONT.

Q111
Q211
Q111, 211
UN4210TA
SWITCHING (PLAY ON)

Q108, 208
2SJ40CDTA
SWITCHING

Q320, 321
UN411FTA
MOTOR DRIVE

Q319
UN411FTA
R/P SELECT
(REC ON)

Q315, 316
UN4216TA
SOLENOID DRIVE

Q313, 314
2SB1030QRSTA
SOLENOID DRIVE

Q321
Q320
Q319
Q313
Q315
Q314
Q316

Q324~326
2SC3311RTA
INTERFACE

Q329
UN4215TA
INTERFACE

Q327, 328, 330, 331
2SC3311RTA
INTERFACE

Q327
Q328
Q329
Q330
Q331
Q324
Q325
Q326

IC305
M50253P
SYSTEM CONTROL
(12-BIT SERIAL
/PARALLEL CONV.)

INPUT SELECT
LATCH
12BIT SHIFT RESISTOR
BUFFER

IC971
DN6851ALB
HALL IC

IC951
DN6851ALB
HALL IC

Q318
2SD1450STA
MOTOR (DECK 1)

M
MOTOR
(DECK 1)

CP307
1 —
2 Rch OUT
3 Lch OUT
4 AF GND
5 Rch IN
6 Lch IN
7 +B(4)
8 GND
9 +B(5)
10 GND

To G CONNECTOR(2)
CIRCUIT(CS3072)
(Page 25)

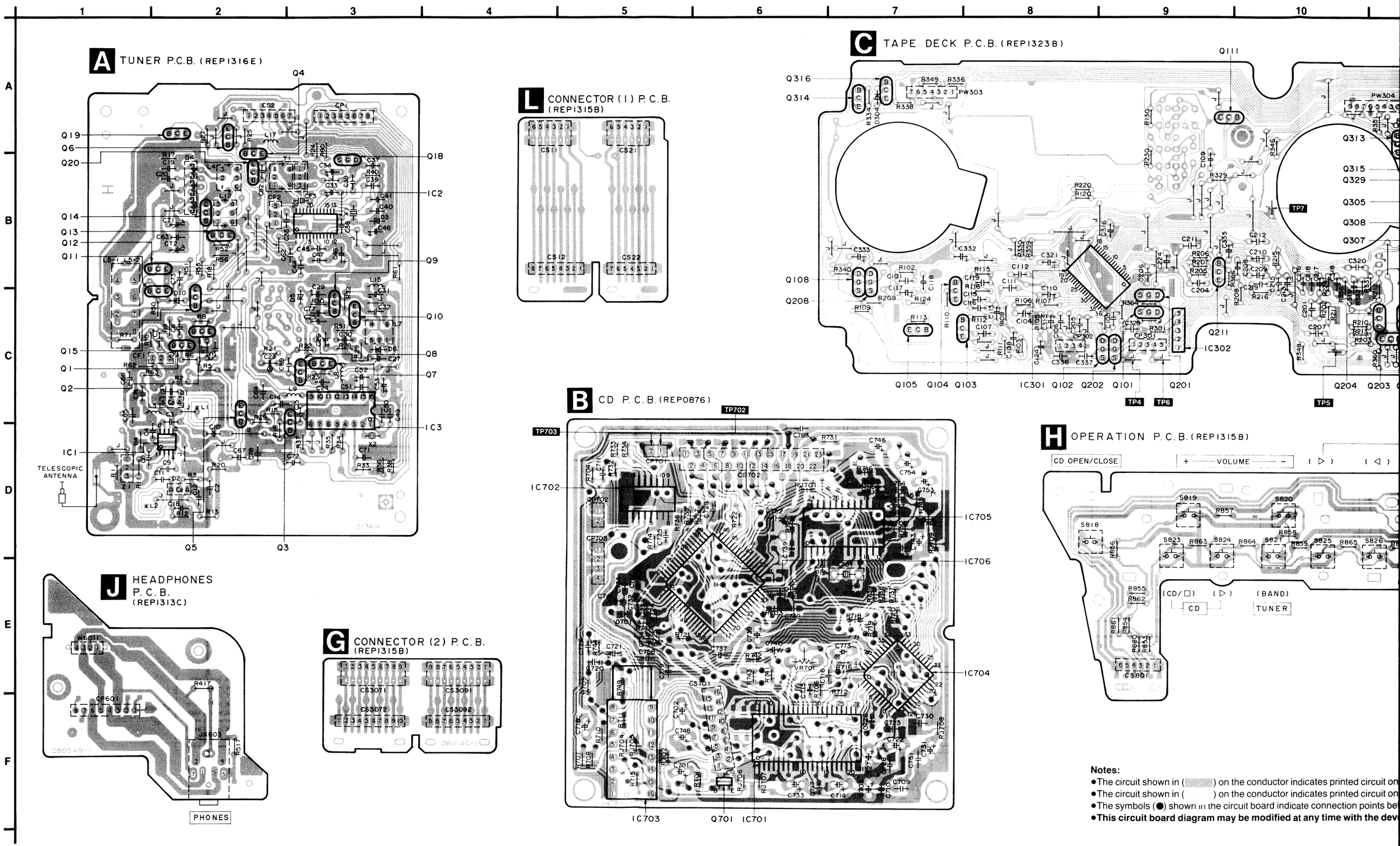
CP309
1 +B(3)
2 MKCLK
3 MKDATA
4 VREF −
5 VREF +
6 AD IN5
7 AD IN6
8 AD IN7
9 BP3

To G CONNECTOR(2)
CIRCUIT(CS3092)
(Page 25)

D MECHANISM(DECK2)CIRCUIT

E MECHANISM(DECK1)CIRCUIT

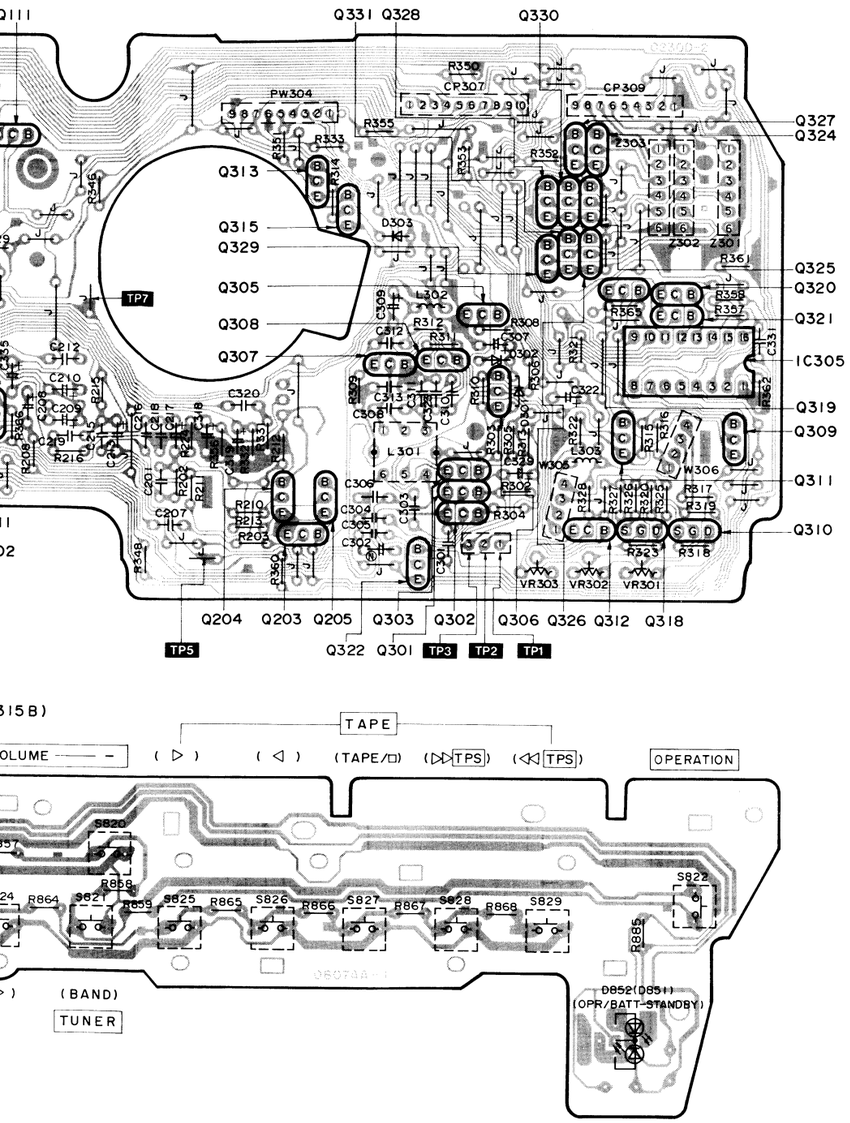
■ CIRCUIT BOARD DIAGRAM



Notes:

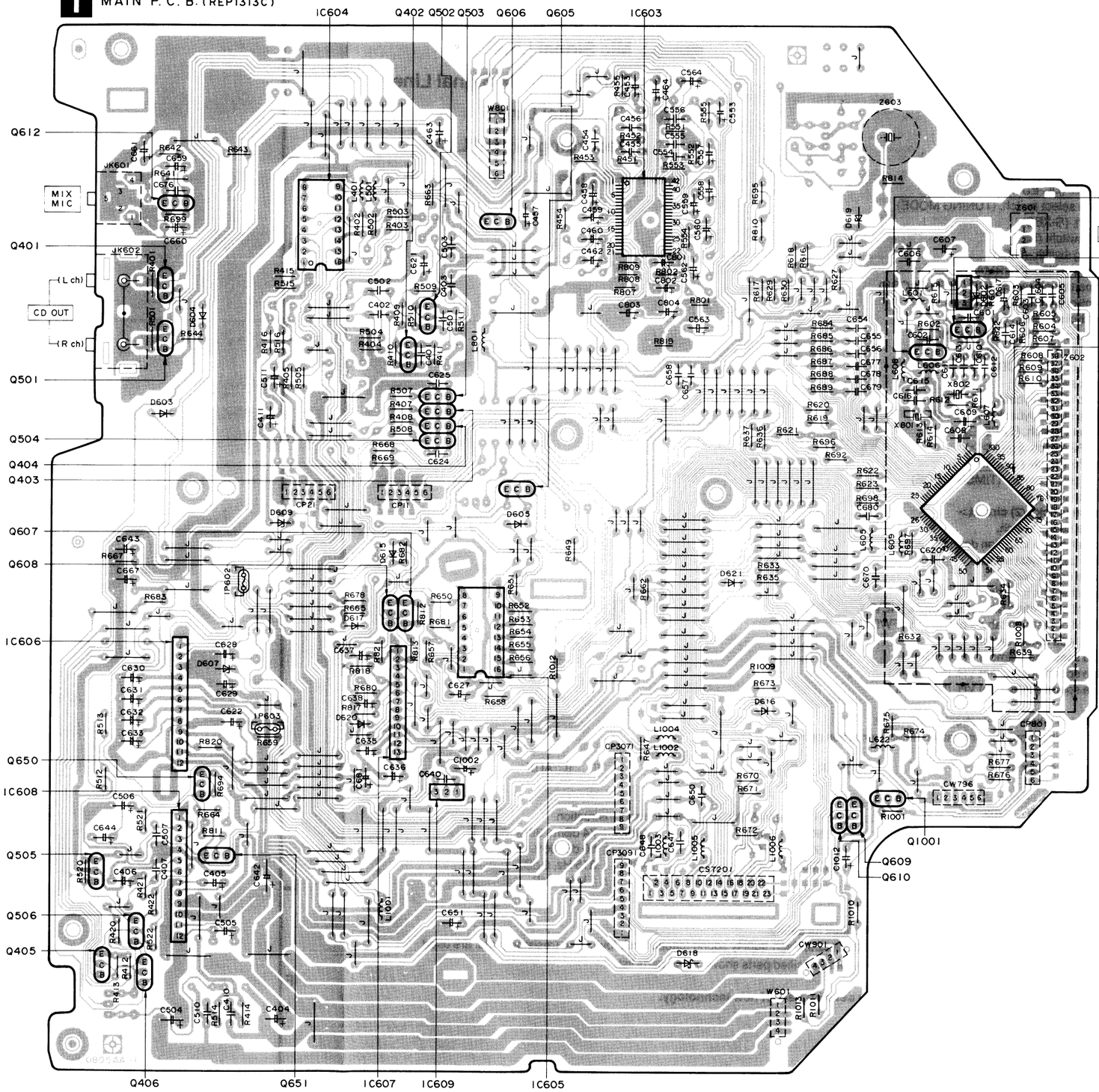
- The circuit shown in ( ) on the conductor indicates printed circuit on
- The circuit shown in ( ) on the conductor indicates printed circuit on
- The symbols (●) shown in the circuit board indicate connection points be
- **This circuit board diagram may be modified at any time with the dev**

10 11 12 13 14 15 16 17 18 19



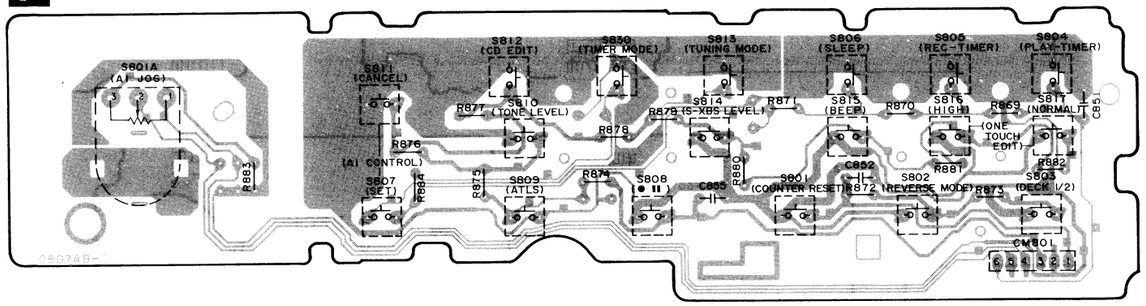
n the conductor indicates printed circuit on the back side of the printed circuit board.
n the conductor indicates printed circuit on the front side of the printed circuit board.
circuit board indicate connection points between conductors on the front side and back side of the circuit board.
ay be modified at any time with the development of new technology.

I MAIN P. C. B. (REP1313C)

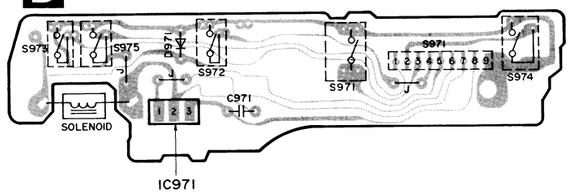


21 22 23 24 25 26 27 28 29 30

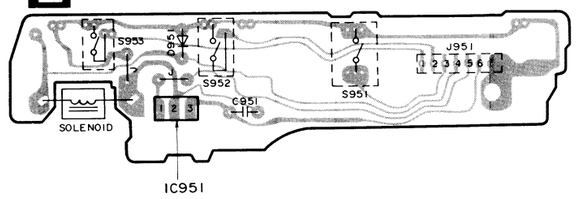
F AI OPERATION P.C.B. (REP1315B)



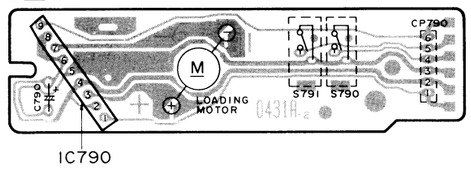
D MECHANISM (DECK 2) P.C.B. (REP0228)



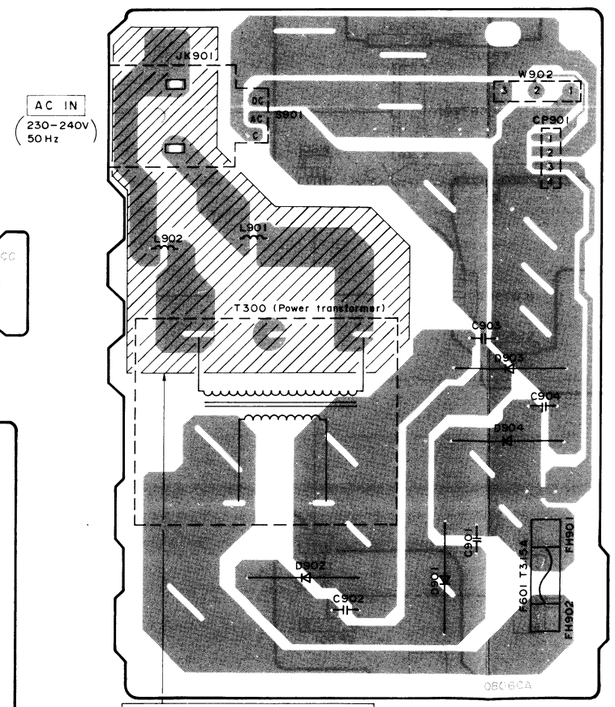
E MECHANISM (DECK 1) P.C.B. (REP0152)

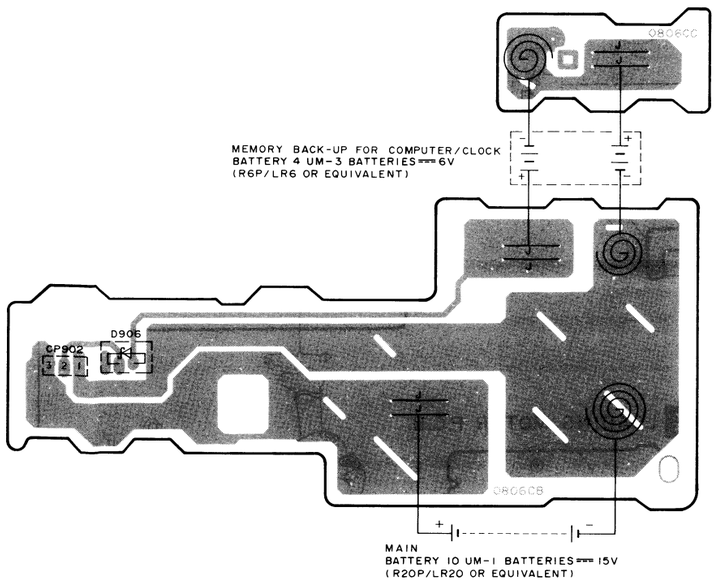


K LOADING MOTOR P.C.B. (REP0767)

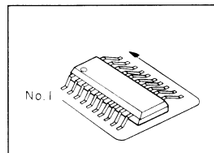


M POWER SUPPLY P.C.B. (REP1314C)



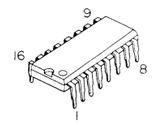


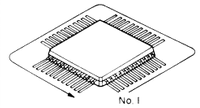
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion.



RVITA7358FT	8Pin	AN8800SCE2	42Pin
TCA0372DM2R	16Pin	M51135FP-E1	42Pin
MN6475	24Pin		
TA8132AFET	24Pin		
M51167AFP-E1	36Pin		

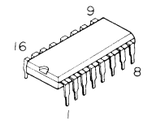
MC14052BCP



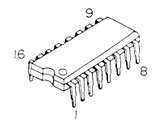


MN6650	44Pin
MN6626	64Pin
MND2410RUJ	100Pin

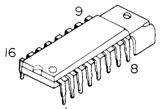
M50253P



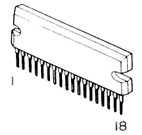
LM7001



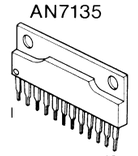
AN8377N



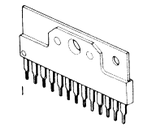
BA3930



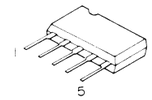
AN7135



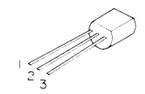
LA5605



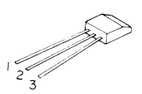
BA7755



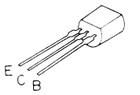
S8053HNB-T
S81250PGT



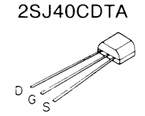
DN6851ALB



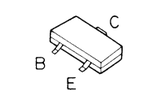
2SC1674LTA
2SD965Q

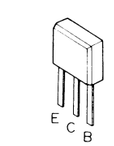


2SK381CTA
2SK381BCDTA
2SJ40CDTA



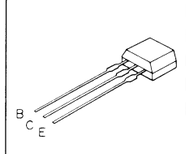
2SB709S





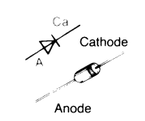
2SA1309R
2SB1030QRSTA
2SC3311AR
2SC3311R
2SC3312RTA
2SC3313B

2SD1450RTA
UN411FTA
UN4215
UN4216-S
UN4217TA

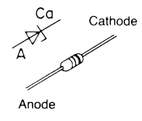


RVTDTA114EST
RVTDTC114EST
RVTDTC114YST
RVTDTA143XST
RVTDTC144TST

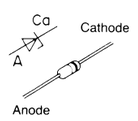
MA165
RVD1SS133TA



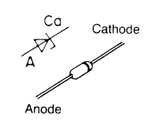
MA4051MTA



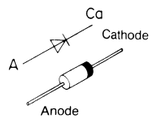
MA4130M



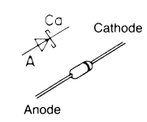
RVDMTZ4R7BTA
RVDMTZ6R8BTA



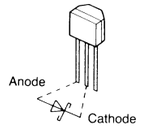
1N5402B-M21



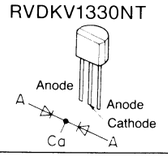
RB441QT77



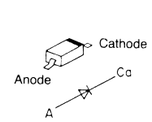
1SS293TPE4



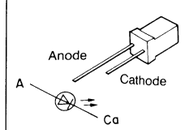
KV1560NT
RVDKV1330NT



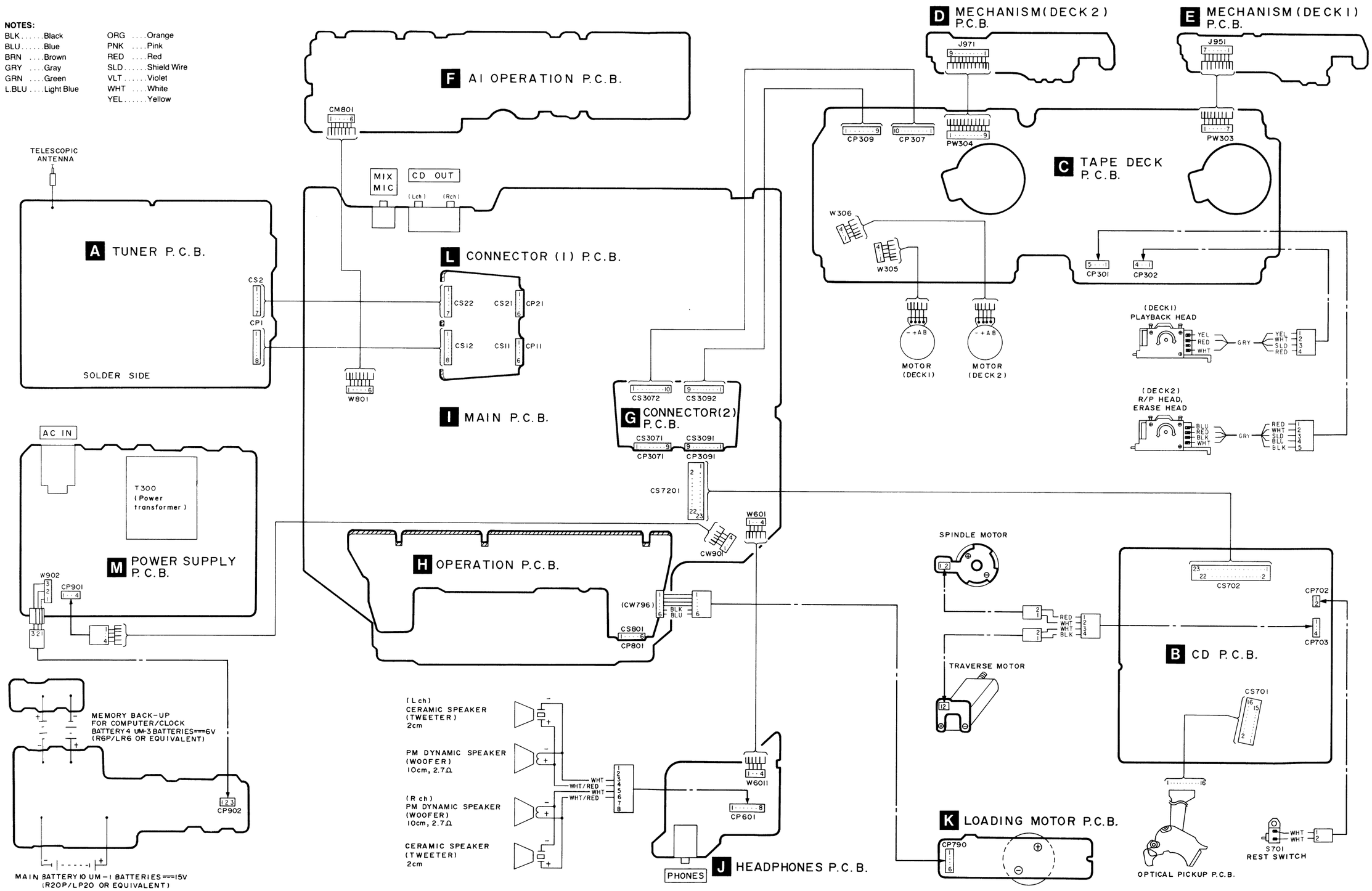
MA110TW



LN850RPX3UT2

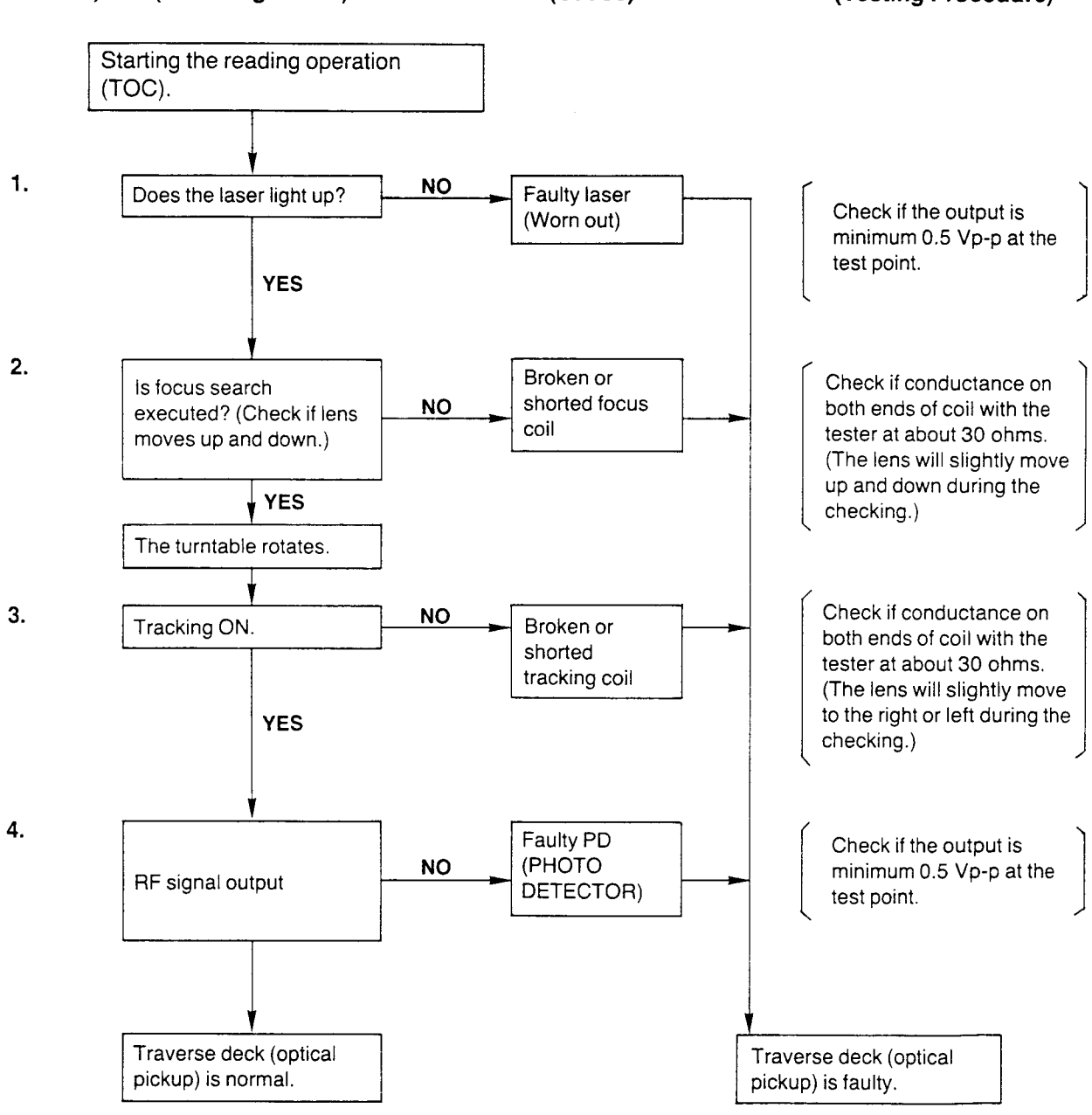


■ WIRING CONNECTION DIAGRAM



■ CHECKING THE OPERATION PROBLEMS ON THE TRAVERSE DECK (OPTICAL PICKUP)

Make sure to follow the procedures below to check the operation problems of the traverse deck (optical pickup) before replacing it. Replace the traverse deck only after the problem is identified.


(Procedure No.)
(Checking Points)
(Cause)
(Testing Procedure)
Starting the reading operation (TOC).
1.
Does the laser light up?
NO
Faulty laser (Worn out)
Check if the output is minimum 0.5 Vp-p at the test point.
YES
2.
Is focus search executed? (Check if lens moves up and down.)
NO
Broken or shorted focus coil
Check if conductance on both ends of coil with the tester at about 30 ohms. (The lens will slightly move up and down during the checking.)
YES
The turntable rotates.
3.
Tracking ON.
NO
Broken or shorted tracking coil
Check if conductance on both ends of coil with the tester at about 30 ohms. (The lens will slightly move to the right or left during the checking.)
YES
4.
RF signal output
NO
Faulty PD (PHOTO DETECTOR)
Check if the output is minimum 0.5 Vp-p at the test point.
Traverse deck (optical pickup) is normal.
Traverse deck (optical pickup) is faulty.

※Replace traverse deck.

- Check electrical circuit.
- CD is not adjusted properly. Adjust CD again.
  (1) Mechanical adjustment.
  (2) Best eye adjustment (PD balance)
  } Refer to page 51.
- Check for flaws on disc or if it is warped or not centered.

※Checking Operations of Replaced Traverse Deck (New Traverse Deck)

a) Check the operations described below on the traverse deck after replacing it.

＊Checking Skip Search

1. Play an ordinary musical program disc.
2. Press the skip button to check for normal skip search operation (in both the forward and reverse directions).

＊Checking Manual Search

1. Play an ordinary musical program disc.
2. Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).

＊Checking Using Defect Disc.

1. Play the 0.7 mm black dot and the 0.7 mm wedge on the defect test disc (SZZP1054C) and verify that no sound skip or noise occurs.
2. Play the middle tracks of the uneven test disc (SZZP1056C) and verify that no sound skip or noise occurs.

b) If the operations are normal, CD adjustment are not required when the traverse deck is replaced.

Note: CD adjustments are required in the cases below. (Mechanical adjustments are not necessary.)
(See item 2 on page 51.)

- If audio is not played back continuously or noises occur after step (a) is excuted.
- If the adjustment VR (V701) were rotated before the traverse deck was replaced.
- If the ICs in the servo circuit or adjustment VR were replaced.

Caution:

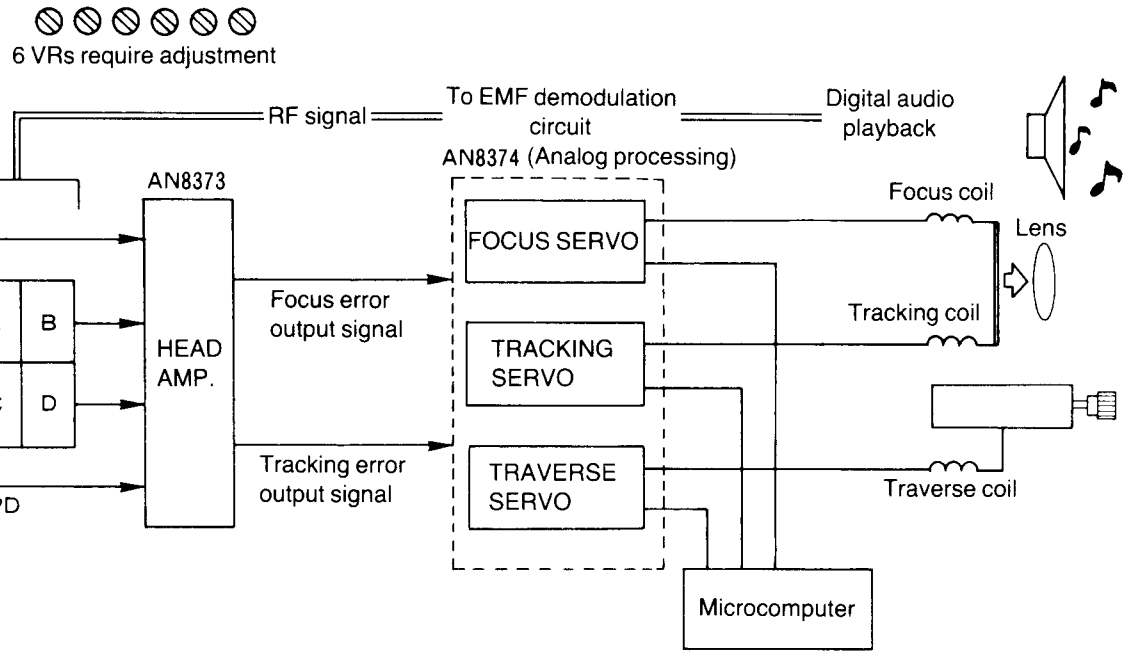
- It is very dangerous to look at or touch the laser beam. (Laser radiation is invisible.)
  With the unit turned "on", laser radiation is emitted from the pickup lens.
  Avoid exposure to the laser beam, especially when performing adjustments.

■ DIGITAL SERVO SYSTEM

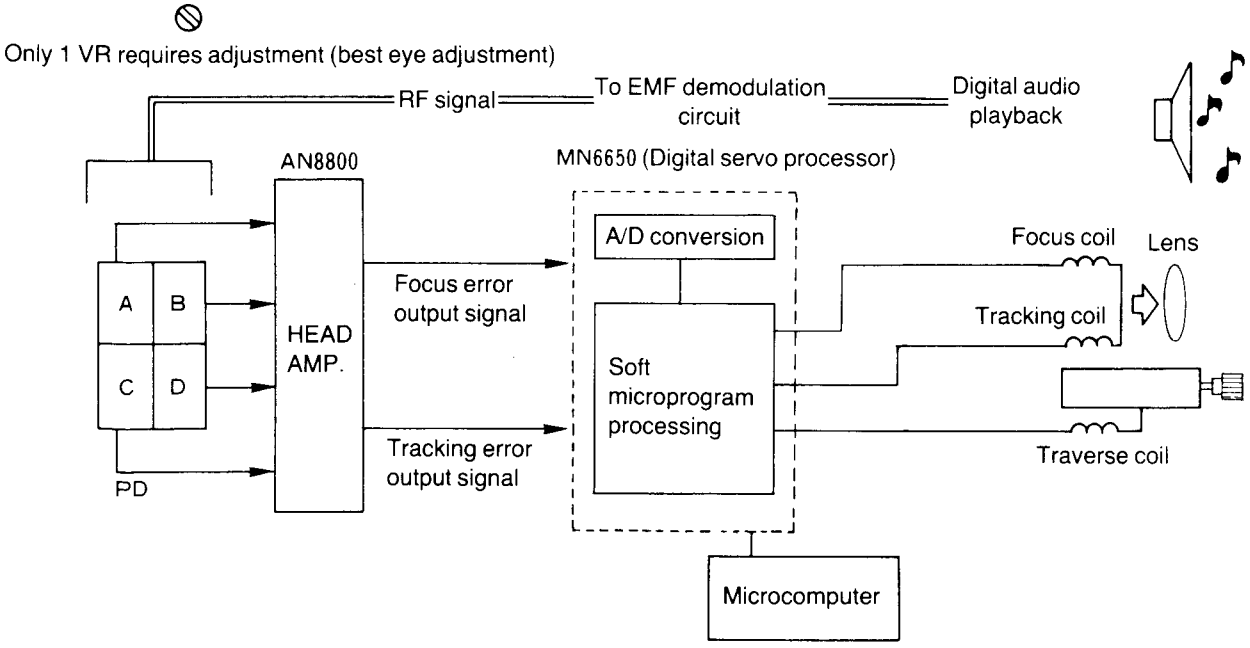
The newly-developed digital servo system is adopted in the servo circuit of the unit's CD player instead of the ordinary analog servo system.

1. The diagrams shown below represent differences between the analog servo and digital servo systems. The HEAD AMP. output signals (i.e., focus error and tracksing error output signals) are analog. These analog signals are converted to the 8-bit digital signals through the MN6650. The MN6650 performs the following adjustments automatically; focus offset, tracking offset, focus gain, tracking gain, and tracking balance adjustments. The outputs from the MN6650 such as the focus coil driving signal, tracking coil driving signal, and traverse motor driving signal are converted to analog signals again and sent to the coils and motor to perform proper servo control for a disc.

ANALOG SERVO SYSTEM



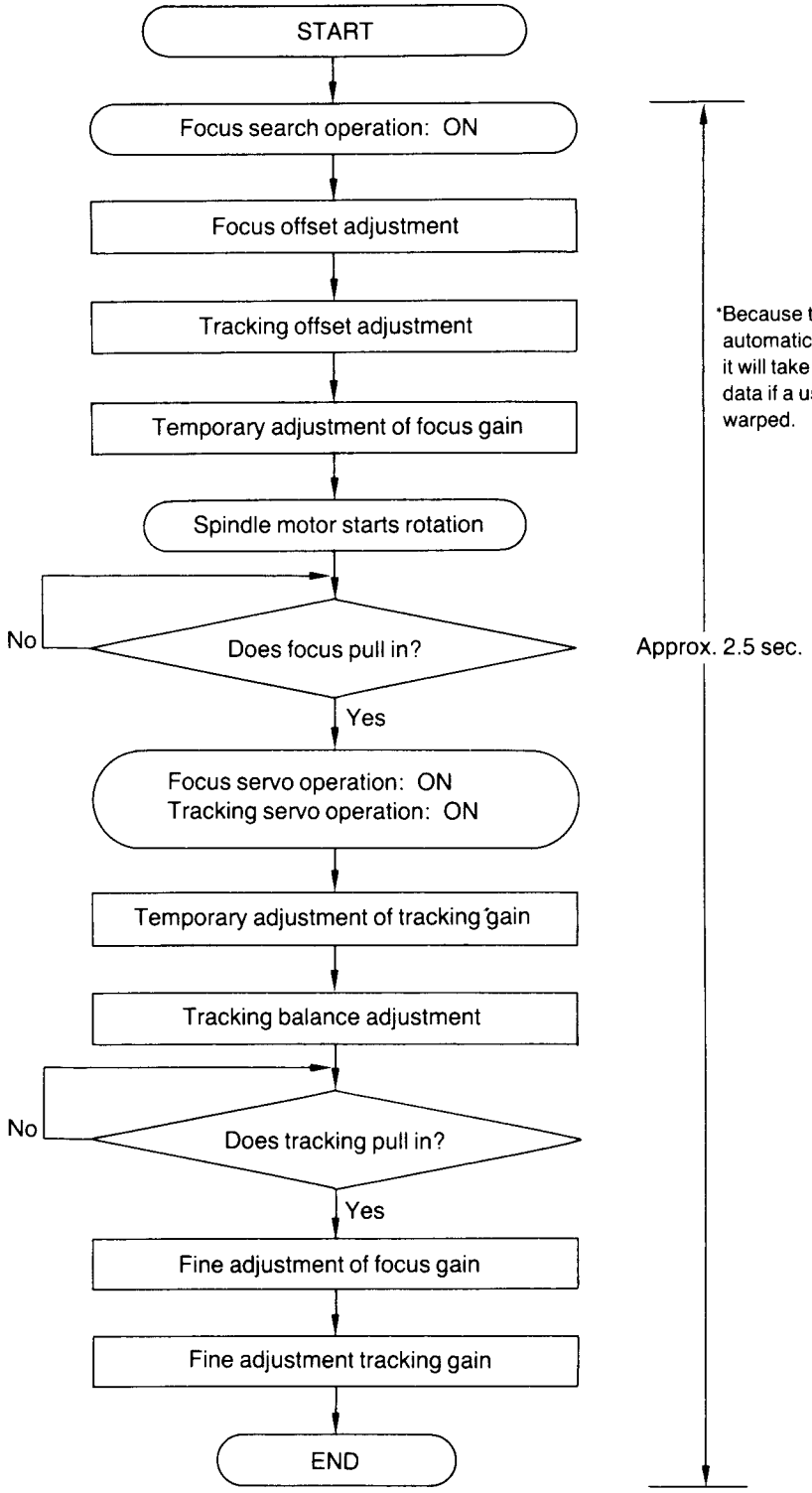
DIGITAL SERVO SYSTEM



2. The servo processor IC MN6650 of the newly-developed digital servo circuit automatically performs the following adjustments which were originally adjusted in the conventional analog servo circuit:
(1) Focus offset, (2) Tracking offset, (3) Focus gain, (4) Tracking gain, and (5) Tracking balance. Therefore, you do not have to perform not the above-mentioned electrical adjustments manually. Only the best eye (PD balance) needs tc be adjusted adjustment. You can obtain an optimum servo control for a disc to be played.
[You must perform the best eye (PD balance) adjustment manually.]

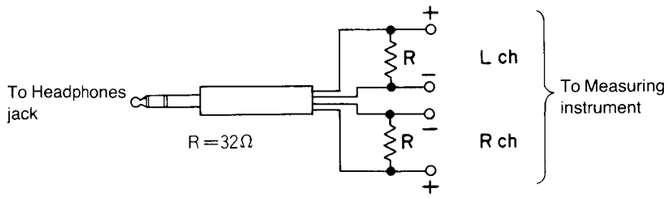
The following flow chart shows the sequence of automatic adjustments.

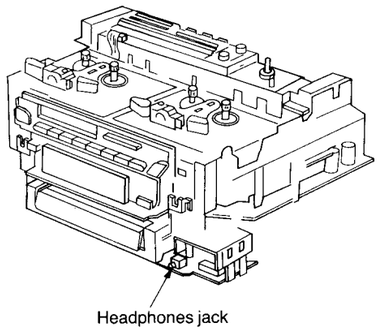
•Flow chart on automatic adjustment sequence


START
Focus search operation: ON
Focus offset adjustment
Tracking offset adjustment
Temporary adjustment of focus gain
Spindle motor starts rotation
No
Does focus pull in?
Yes
Focus servo operation: ON
Tracking servo operation: ON
Temporary adjustment of tracking gain
Tracking balance adjustment
No
Does tracking pull in?
Yes
Fine adjustment of focus gain
Fine adjustment tracking gain
END
*Because the microcomputer precisely performs automatic adjustments as shown in the flow chart, it will take approx. 5 seconds to finish reading TOC data if a used disc is eccentric one or its surface is warped.
Approx. 2.5 sec.

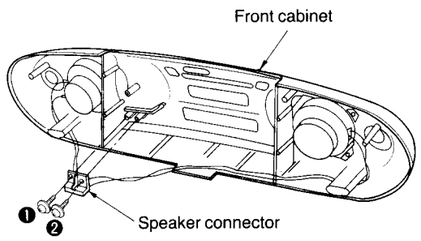
■ PREPARATIONS FOR CHECK AND ADJUSTMENT OF P.C.B.

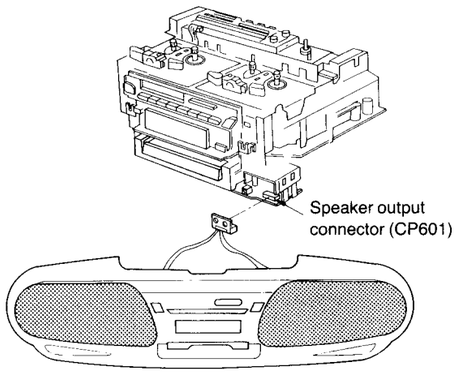
•Fabricate the measuring instrument as shown below to measure the audio output via the headphones jack for check and adjustment of the P.C.B.





•If you wish to measure the audio output from the speaker without using the measuring instrument (i.e. output from the headphones), make connection in the way shown below.

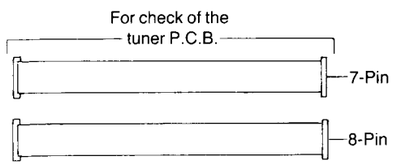


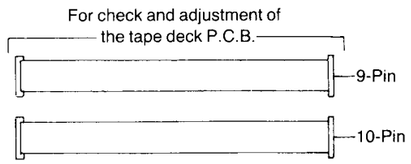


1. Remove 2 screws (❶, ❷) to remove the speaker connector.
2. Remove the speaker cable from the boss used for wire arrangement.
3. Connect the speaker connector with the speaker output connector (CP601).

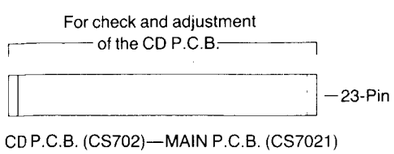
•Use the extension cable kit as shown below when checking and adjusting the unit's P.C.B.

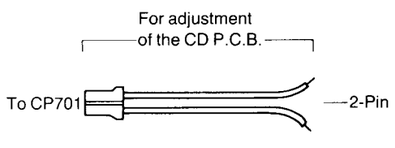
Part No.: RFKZ0024 (set of 4 extension cables)





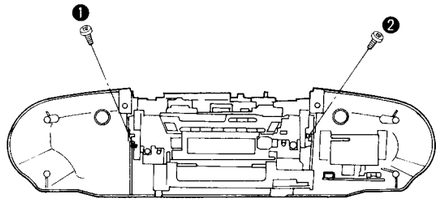
Part No.: RFKZ0009 (set of 2 extension cables)



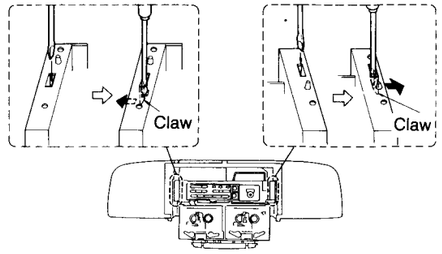


•Check and adjustment of Tuner P.C.B.

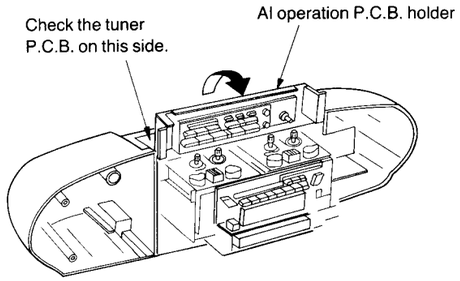
1. Follow the disassembly instructions of Ref. No.5 "Removal of the Cassette Panel" to remove the cassette panel. (Refer to page 9.)



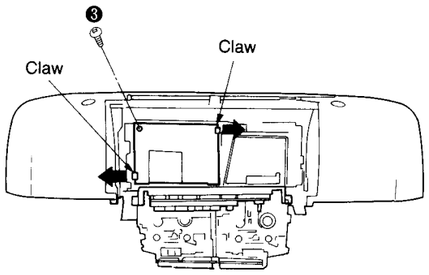
2. Remove 2 screws (❶, ❷)



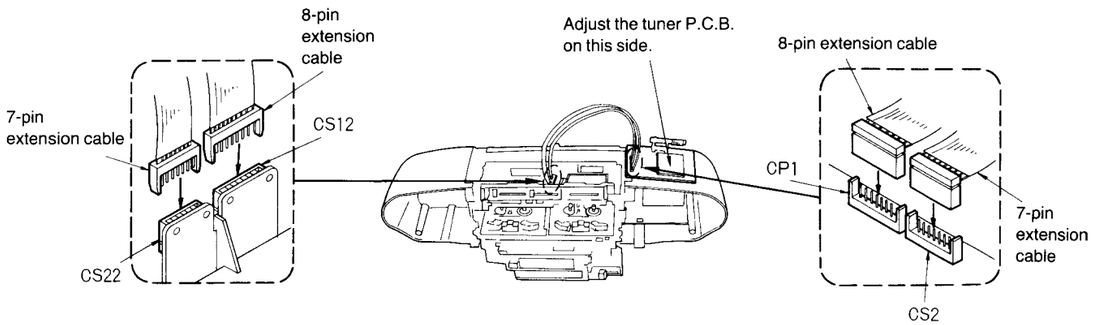
3. Release 2 claws in the direction of arrow and remove the AI operation P.C.B. holder.



4. Place the AI operation P.C.B. holder as shown above.
•Be sure to check the tuner P.C.B. under this condition.



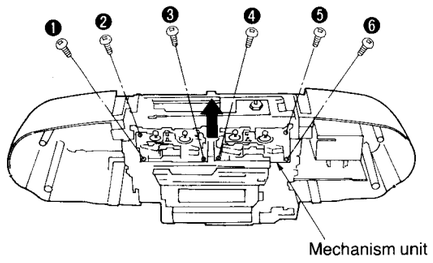
5. Remove the screw (❸).
6. Remove the tuner P.C.B. by keeping the 2 claws pressed in the direction of arrow.



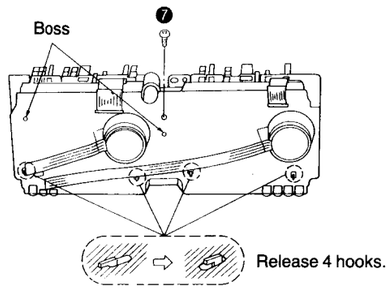
7. Connect the 8-pin connector and 7-pin connector of the extension cable (RFKZ0024).
•Be sure adjustment the tuner P.C.B. under this condition.

●Check and adjustment of tape deck P.C.B.

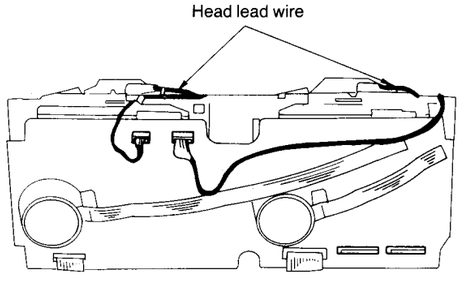
1. Follow the disassembly instructions of Ref. No.5 "Removal of the Cassette Panel" to remove the cassette panel. (Refer to page 9.)



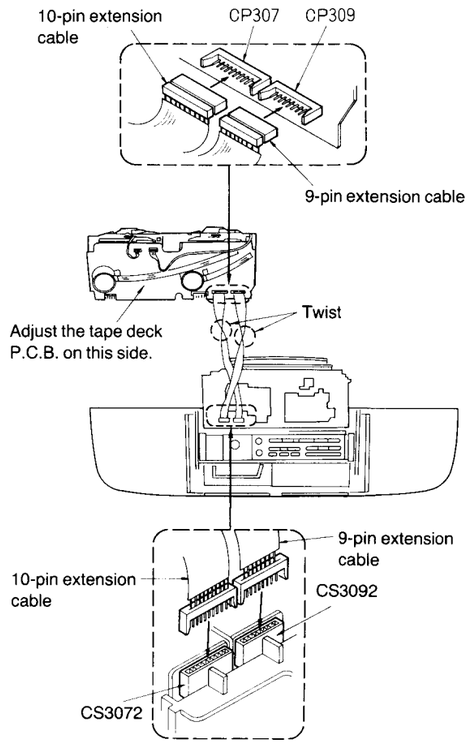
2. Remove 6 screws (❶~❻).
3. Remove the mechanism unit in the direction of arrow.



5. Remove the screw (❼).
6. Release 2 bosses.
7. Release 4 hooks.

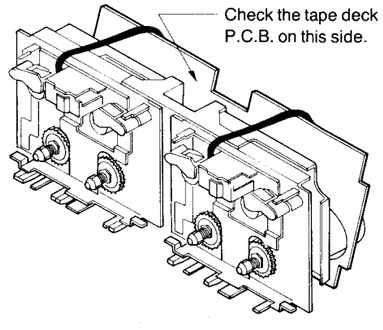


8. Place the tape deck unit as shown above.
9. Release 2 head lead wires from hook.



4. Connect the 9-pin connector and 10-pin connector of the extension cable (RFKZ0024).

●Be sure to adjustment the tape deck P.C.B. under this condition.

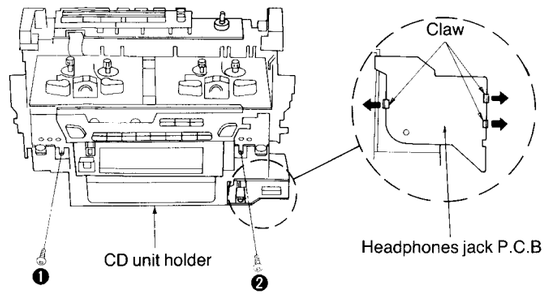


10. Place the tape deck P.C.B. as shown above.

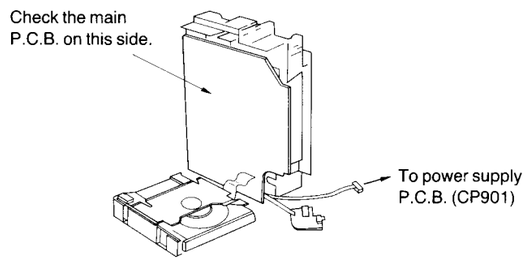
●Be sure to check the tape deck P.C.B. under this condition.

●Check and adjustment of main P.C.B. and CD P.C.B.

1. Follow the disassembly instructions of Ref. No.6 "Removel of the Main Unit" to remove the main unit. (Refer to page 10.)

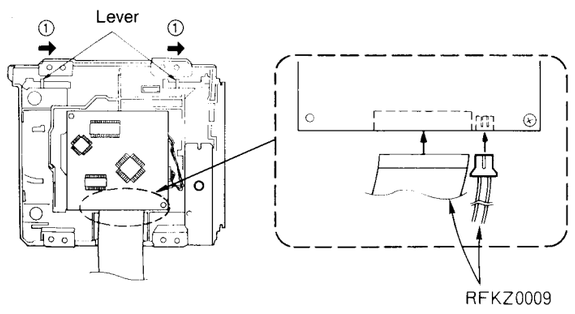


2. Remove the headphones jack P.C.B. by keeping the 3 claws pressed in the direction of arrows.
3. Remove 2 screws (❶, ❷) and remove the CD unit holder.

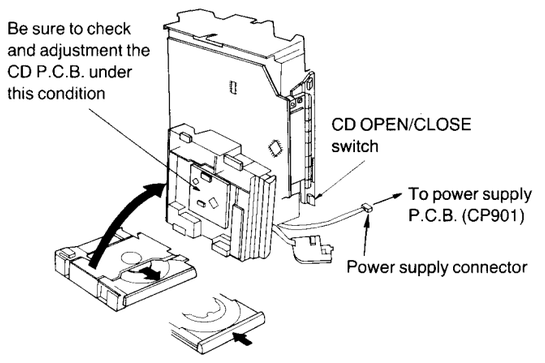


4. Place the main unit as shown above.
5. Connect the power supply connector to the power supply P.C.B. (CP901).

●Be sure to check the main P.C.B. under this condtion.



6. Slide the lever fully int he direction of arrow ① and pull the CD P.C.B. toward you.
7. Connect the extension cable (RFKZ0009) to the CD P.C.B. (If you don't follow procedure as stated in "6"above, you can't connect the extension cable kit.)


Be sure to check and adjustment the CD P.C.B. under this condition
CD OPEN/CLOSE switch
To power supply P.C.B. (CP901)
Power supply connector

8. Connect the CD unit to the mian P.C.B.
9. Connect the power supply connector to the power supply P.C.B. (CP901).
10. Press the CD/□ button. (Power is turned on and the deck is set to the CD function mode.)
11. Press the CD OPEN/CLOSE button to open the disc tray.
12. Load the test disc into the disc tray and press the CD OPEN/CLOSE button to close the disc tray.
13. Place the CD unit as shown above.

●Be sure to check and adjust the CD P.C.B. under this condition.

■ MEASUREMENTS AND ADJUSTMENTS

<TUNER SECTION>

•ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
•Set power source voltage to 15 V DC. •Set power switch to ON. •Set function switch to TUNER/AM.	•Set volume control to 5. •Output of signal generator should be no higher than necessary to obtain an output reading.

•AM-RF ALIGNMENT

(The parts other than the ones listed below are aligned at the factory before they are supplied. Therefore, alignment of those parts is unnecessary when used for replacement.)

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	594 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Page 45 and then connect the lead wires of the plug to the measuring instrument.)	(*1) L5-1 (AM ANT Coil)	Adjust for maximum output. Adjust L5-1 by moving coil along the ferrite core.
"	1503 kHz	"	"	CT1 (AM ANT Trimmer)	Adjust for maximum output.
(*1) Fix antenna coil with wax after completing alignment.					

■ LW-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	162 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Page 45 and then connect the lead wires of the plug to the measuring instrument.)	(*2) L5-2 (AM ANT Coil)	Adjust for maximum output. Adjust L5-2 by moving coil along the ferrite core.
"	270 kHz	"	"	CT2 (AM ANT Trimmer)	Adjust for maximum output.
(*2) Fix antenna coil with wax after completing alignment.					

<CASSETTE DECK SECTION>

•ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
•Set power source voltage to 15 V DC. •Set power switch to ON. •Set function switch to TAPE.	•Set volume control to 5. •Output of signal generator should be no higher than necessary to obtain an output reading.

•HEAD AZIMUTH ALIGNMENT

TEST TAPE	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz, −20 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Page 45 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth Screw (Shown in Fig. 2.)	maximum output.	1. Playback mode. 2. Adjust for maximum output.

•TAPE SPEED ALIGNMENT

TEST TAPE	INDICATOR (FREQUENCY COUNTER)	ADJUSTMENT	REMARKS
QZZCWAT (3 kHz, −10 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Page 45 and then connect the lead wires of the plug to the measuring instrument.)	DECK 2 HIGH SPEED ..... VR301 DECK 1 NORMAL SPEED ..... VR303 DECK 2 NORMAL SPEED ..... VR302 (Shown in Fig. 3.)	1. Short the test point TP1 and TP2 TP2 and TP3 to set the high speed mode. 2. Insert test tape (QZZCWAT) in DECK 1 and start playback in forward direction. •This frequency is defined as **F**. 3. Insert test tape (QZZCWAT) in DECK 2 and start playback in forward direction. 4. Adjust VR301 until the frequency is set to **F±40 Hz**. 5. Open the test point TP1 and TP2, TP2 and TP3 to set the normal speed mode. 6. Insert test tape (QZZCWAT) in DECK 1 and start playback in forward direction. 7. Adjust VR303 until the frequency is set to **3000±20 Hz**. 8. Insert test tape (QZZCWAT) in DECK 2 and start playback in forward direction. 9. Adjust VR302 until the frequency is set to **3000±20 Hz**.

•RECORD BIAS CHECK

TEST TAPE	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	SPECIFICATION	REMARKS
Use CrO_2 tape and Normal tape	TP6 ...(+) TP4 ...(−) (Shown in Fig. 4.)	——	CrO_2...18.5±2 mV Normal...13±1 mV	•Record mode

■ ALIGNMENT POINT

•Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

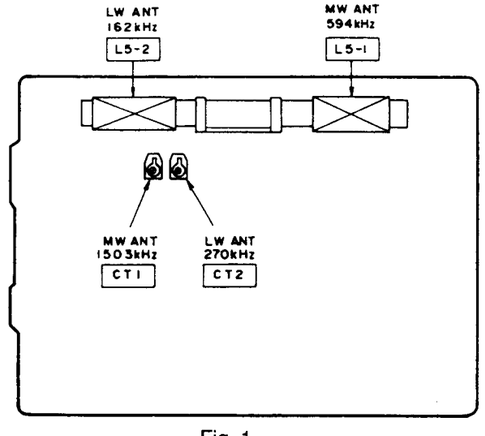


Fig. 1

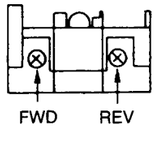
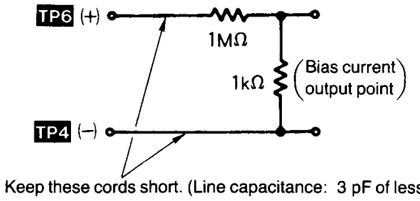


Fig. 2



Keep these cords short. (Line capacitance: 3 pF of less)

•In order not ot influence the bias oscillation, divide the voltage with 1 MΩ and 1 kΩ resistors, and measure the voltage across the 1 kΩ resistor.

Fig. 4

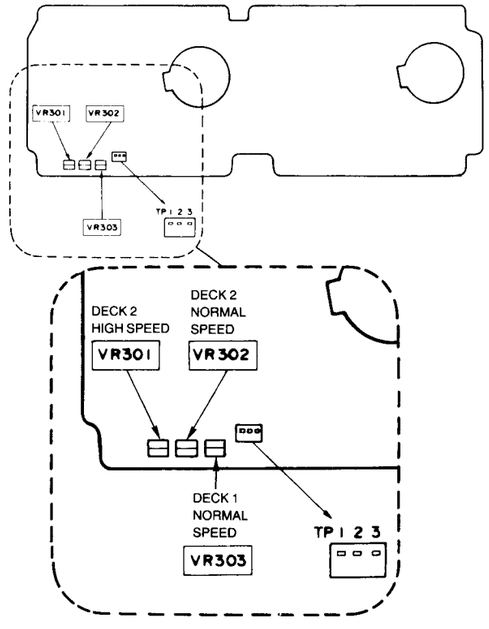


Fig. 3

<CD SECTION>

Caution:
- It is very dangerous to look at or touch the laser beam. (Laser radiation is invisible.)
  With the unit turned "on", laser radiation is emitted from the pickup lens.
  Avoid exposure to the laser beam, especially when performing adjustments.

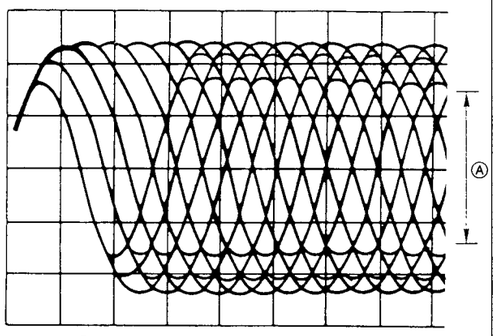
Measuring Instruments and Special Tools

- Test disc
  1. Playability test disc (SZZP1054C)
  2. Uneven test disc (SZZP1056C)
- Allen wrench (M2.0) (SZZP1101C)
- Oscilloscope

(1) MECHANICAL ADJUSTMENT

- When the traverse deck is replaced, making adjustments is not necessary. (The traverse deck ass'y is already adjusted.)
- Make adjustments to improve playability when the traverse deck has not been replaced. Make the electrical adjustments first.

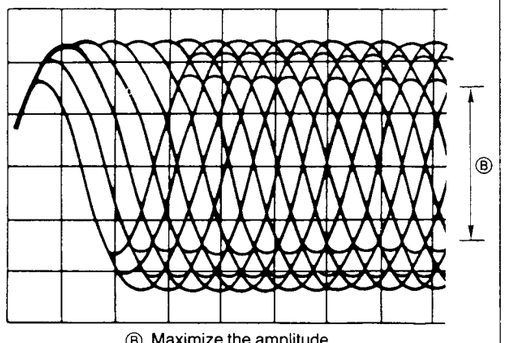
1. Connect the oscilloscope's CH. 1 probe across **TP702** (+) and **TP703** (V-REF) on the Servo P.C.B.
   Oscilloscope setting:
   VOLT ..... 200 mV
   SWEEP ..... 0.5 µsec
   Input coupling ..... AC
2. Switch the player power **ON**, and play track **19** on the test disc (SZZP1056C).
3. Leave the player in Play mode and place it as shown in the figure on the right.
4. Alternately adjust the two mechanical adjusting screws with the 2.0 mm allen wrench (SZZP1101C) until the RF signal amplitude variation on the oscilloscope is minimized. (Shown in Fig. 6)
5. After completing the adjustment, lock the **mechanical adjustments** with lock paint (RZZOL01).



Ⓐ Minimize the variation of amplitude.

(2) BEST EYE (PD BALANCE) ADJUSTMENT

1. Connect the oscilloscope's CH. 1 probe across **TP702** (+)and **TP703** (V-REF) on the Servo P.C.B.
   Oscilloscope setting:
   VOLT ..... 200 mV
   SWEEP ..... 0.5 µsec
   Input coupling ..... AC
2. Switch the player power **ON**, and play the 1 kHz (track 1) on test disc (SZZP1054C).
3. Adjust **VR701** until the RF signal eye pattern amplitude is maximized.



Ⓑ Maximize the amplitude

(3) CHECK OF PLAY OPERATION AFTER ADJUSTMENT

'Checking Skip Search
1. Play an ordinary musical program disc.
2. Press the skip button to check for normal skip search operation (in both the forward and reverse directions).

'Checking Manual Search
1. Play an ordinary musical program disc.
2. Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).

'Checking Playability
1. Play the 0.7 mm black dot and the 0.7 mm wedge on the test disc (SZZP1054C) and verify that no sound skip or noise occurs.
2. Play the middle tracks of the uneven test disc and verify that no sound skip or noise occurs.

●ALIGNMENT POINT

- Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

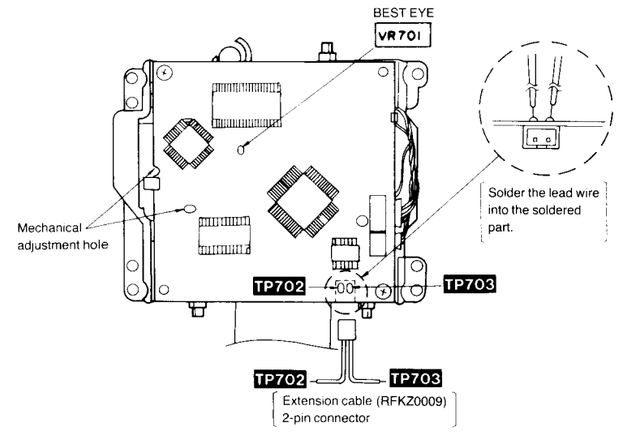


Fig. 5

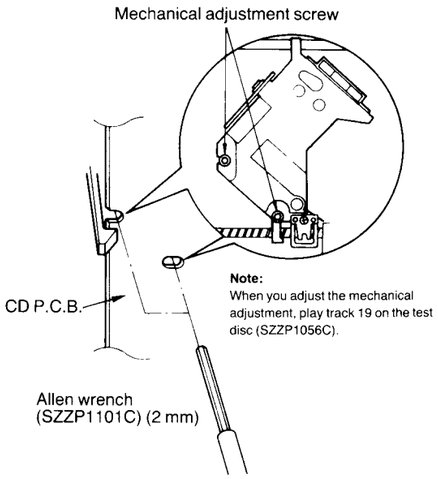

Mechanical adjustment screw
CD P.C.B.
Note:
When you adjust the mechanical adjustment, play track 19 on the test disc (SZZP1056C).
Allen wrench
(SZZP1101C) (2 mm)

Fig. 6

■ SELF DIAGNOSTIC FUNCTION

The Self Diagnostic Function is equipped with RX-DT505. Use this function only when you wish to check the following items.
(It is necessary to use the remote controller supplied with RX-DT505 for the self diagnostic function.)

- **Check of all indications on the LCD**
- **Check of LCD short-circuit**

——— Use the diagnostic function when an LCD is not displayed correctly.

[How to set the self diagnostic function]

Follow the procedures outlined below to set the self diagnostic function mode before the self diagnostic function.

1. Connect the AC power cord of the RX-DT505 to an AC outlet and turn it on.
2. Press the "4" button and afterward "7" button the remote conntroller while keeping the TAPE/□ button pressed.
   The indication in Fig. 1 will be displayed.

Fig. 1

●CHECK OF ALL INDICATIONS ON THE LCD

- Press the "8" button on the remote controller. All indications will appear for about 1 second on the LCD. (Refer to Fig. 2)
  If an indication is not displayed, the LCD or the LCD drive system is defective.

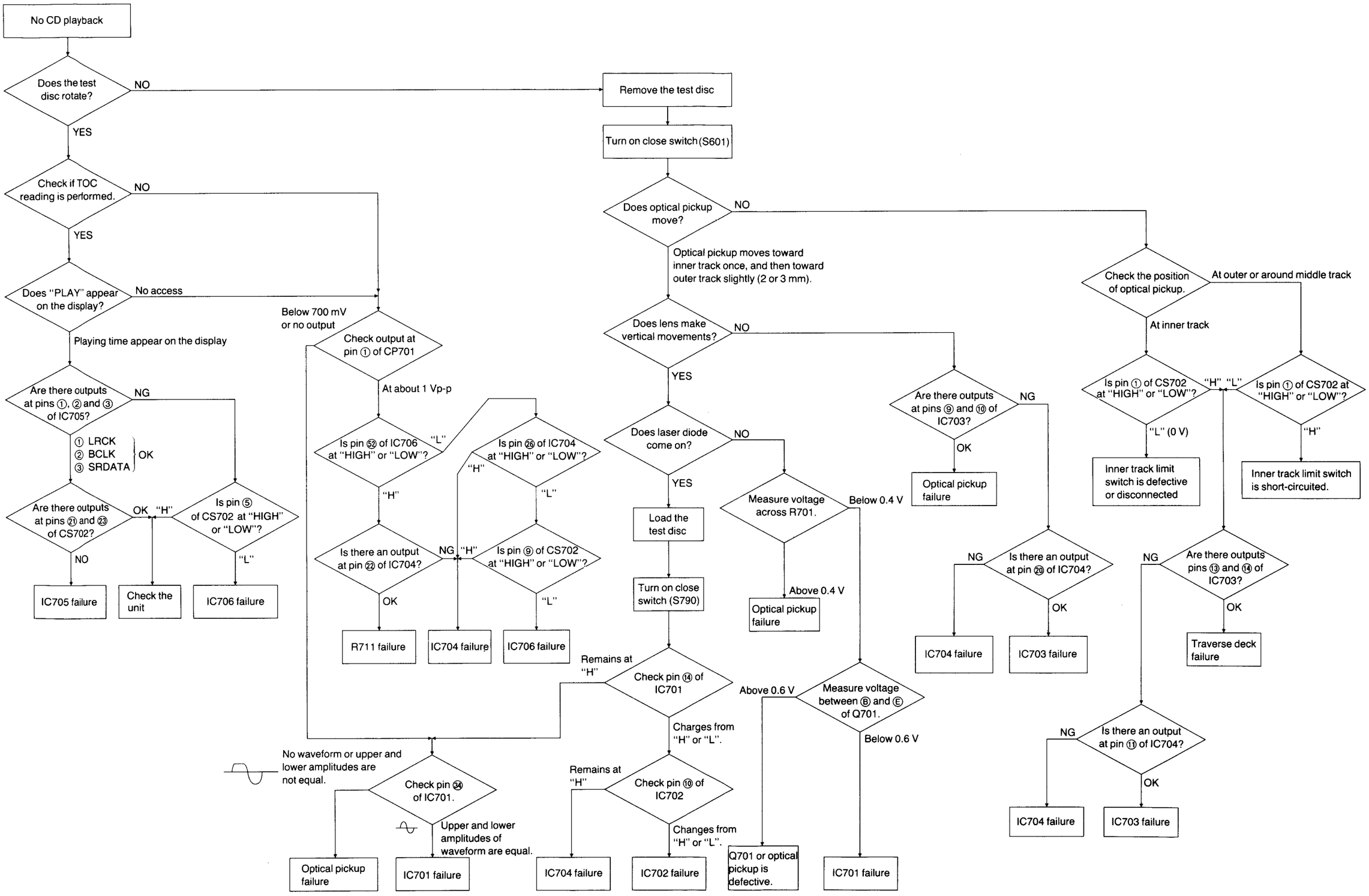
Fig. 2

●CHECK OF LCD SHORT-CIRCUIT

- Press the "9" button on the remote controller. The indications will appear as shown in Fig. 3.
  If another indication appears, the LCD is defective.

Fig. 3

■ TROUBLESHOOTING GUIDE



■ FUNCTION OF IC TERMINALS

●IC305 (M50253P) (The same IC is employed in IC305 and IC603.)

Pin No.	Mark	I/O Division	Function
1	VSS	——	GND
2	DATA	I	Deck control data input
3	CLK	I	Deck control clock input
4	TAPE H	O	Function: TAPE CD: L → TAPE CD: H → TUNER
5	X2 HI SP	O	High speed edit motor control signal output
6	——	——	——
7	BP H	O	Beat proof control signal output
8	DMT	O	Deck muting control signal output
9	——	——	——
10	DECK1 HI	O	Playback head select signal output
11	REC L	O	Recording control signal output
12	MOTOR2	O	Deck 2 motor control signal output
13	MOTOR1	O	Deck 1 motor control signal output
14	SL2	O	Deck 2 plunger control signal output
15	SL1	O	Deck 1 plunger control signal input
16	VDD	I	+5 V

●IC701 (AN8800SCE2)

Pin No.	Mark	I/O Division	Function
1	LDG	I	+5 V input
2	LDP	—	——
3	LD	O	Laser power control output
4	LPD	I	Laser power monitor input
5	GND	—	Ground terminal
6	LDON	I	Laser power control input
7	AMPI	I	RF signal input
8	AMPO	O	RF signal output
9	RFIN	I	RF signal input
10	RFEQ	—	Ground
11	C.AGC	I	AGC detecting capacitor input
12	ARF	O	RF signal output
13	C.SBDO	I	Dropout detecting capacitor input
14	RFDET	O	RF detections signal output
15	BDO	O	Black dropout detection output
16	VCC	I	Power supply (+5 V input)
17	SDO	O	System dropont detection output
18	VAD+	O	A/D converter reference voltage output
19	VREF	O	Reference voltage output
20	VAD−	O	A/D converter reference voltage output
21	OFTR	O	Off track detection output
22	PLAY	I	Play signal input
23	WVEL	I	High speed signal input
24	TES	I	Tracking error signal input
25	PTO	—	——
26	PTI	I	Traverse speed detection signal input
27	PBO	—	——
28	POT	I	Position detecting buffer input
29	CROSS	O	Tracking error cross detection output
30	TE	O	Tracking error output
31	TEBAL	I	Tracking error gain detecting filter input
32	TBAL	I	Tracking balance adjustment
33	VDET	O	Vibration detection signal ouput
34	FE	O	Focus error output
35	FBAL2	I	Focus balance adjustment
36	FBAL2		
37	VCC	I	Power supply (+5 V input)
38	GND	—	Ground
39	PDBD	I	Photo detector current input
40	PDA	I	
41	PDB	I	
42	PDAD	I	

●IC605 (M50253P) (The same IC is employed in IC605 and IC305.)

Pin No.	Mark	I/O Division	Function
1	GND	——	GND
2	DATA	I	System control data input
3	CLK	I	System control clock input
4, 5	——	——	——
6	Q2	I	Muting control signal input
7	——	——	——
8	MONO/ STEREO	O	AM: H → FM ST: L → FM MONO: H
9	TAPE H	O	Function Pin No. 9: CD L, TAPE H Pin No. 10: CD H, TAPE L
10	CD H		
11	BP3	——	——
12	ATLS ATT1	O	ATLS control Pin No. 12: +3 dB H, 0 dB L, −3 dB H, −6 dB H Pin No. 13: +3 dB L, 0 dB H, −3 dB H, −6 dB H
13	ATLS ATT2		
14	LD CLOSE	O	CD tray control CLOSE L, OPEN H, BRAKE H, OUTPUT OPEN L CLOSE H, OPEN L, BRAKE H, OUTPUT OPEN L
15	LD OPEN		
16	VDD	I	+5 V

●IC702 (TCA0372DM2R)

Pin No.	Mark	I/O Division	Function
1	GND	——	GND
2	NC	——	——
3	VOUT1	O	Spindle motor control
4	VCC	I	+7.5 V
5	VOUT2	O	Spindle motor control
6	NC	——	GND
7	NC	——	GND
8	GND	——	GND
9	GND	——	GND
10	NC	——	GND
11	−VIN2	I	Spindle motor control
12	+VIN2	I	Spindle motor control
13	+VIN1	I	Spindle motor control
14	−VIN1	I	Spindle motor control
15	NC	——	GND
16	GND	——	GND

●IC703 (AN8377N): Motor Dirve

Pin No.	Mark	I/O Division	Function
1	PVCC	I	Driver power supply (+8.9 input)
2	VCC	I	Power supply (+8.9 V input)
3	TB	O	External transistor base driving output
4	VMON	O	Voltage output
5	TVDI	I	Traverse error signal input
6	TDI	I	Focus error signal input
7	FDI	I	Tracking error signal input
8	VREF	I	Reference voltage input
9	FD+	O	Non-inverting output of focus driver
10	FD−	O	Inverting output of focus driver
11	TD+	O	Non-inverting output of tracking driver
12	TD−	O	Inverting output of tracking driver
13	TVD+	O	Inverting output of traverse driver
14	TVD−	O	Non-inverting output of traverse driver
15	RESET	O	Reset signal output
16	PC	I	PC input (connect to GND)

•IC704 (MN6650)

Pin No.	Mark	I/O Division	Function
1	TES	O	Tracking error signal output
2	PLAY	O	Play signal output
3	/RFDET	I	RF detection signal input
4	DO	I	Dropout signal input
5	OFT	I	Off track signal input
6	ARF	I	RF signal input
7	WVEL	O	High speed status signal output
8	PBO	I	Potension buffer signal input
9	TE	I	Tracking error signal input
10	FE	I	Focus error signal input
11	VR2	I	A/D reference voltage input
12	VR1	I	A/D reference voltage input
13	LDON	O	Laser power control signal output
14	VSS	—	Ground
15	AVSS	—	Ground
16	AVDD	I	Power supply (+5 V input)
17	VDD	I	Power supply (+5 V input)
18	TRV	O	Traverse servo control output
19	TVD	O	Traverse drive output
20	FOD	O	Focus drive output
21	TRD	O	Tracking drive output
22	KICK	O	Track kick signal output
23	/TEST	I	+5 V input
24	VSS	—	Ground
25	CLVS	I	Spindle servo signal input
26	/TRON	O	Tracking servo signal output
27	MDATA	I	Command data input
28	MCLK	I	Command clock signal input
29	MLD	I	Command load signal input
30	SENSE	O	Sense signal output
31	/FLOCK	O	Focus servo signal output
32	/TLOCK	I	Tracking servo signal output
33	/RST	I	Reset signal input (L: Reset)
34	XI	I	Clock input (fXI=16.9344 MHz)
35	TO	—	Open
36	T1		
37	T2		
38	T3		
39	T4	—	Ground
40	T5		
41	T6		
42	VDET	I	Vibration detecting signal input
43	TBAL	O	Tracking balance adjustment output
44	TRCRS	I	Track cross signal input

•IC705 (MN6475)

Pin No.	Mark	I/O Division	Function
1	LRCK	I	Clock input
2	BCLK	I	Serial data bit clock input
3	SRDATA	I	Serial data input
4	COT1	—	Ground
5	COT2		
6	TEST		
7	VDD	I	Power supply (+5 V input)
8	X2	—	Clock (f=33.8688 MHz)
9	X1		
10	VSS	—	Ground
11	AVDDL	I	Power supply (+5 V input)
12	OUT.L	O	AF signal output (Lch)
13	AVSS.L	—	Ground
14	AVSS.R	—	Ground
15	OUT.R	O	AF signal output (Rch)
16	AVDD.R	I	Power supply input
17	/RST	I	Reset signal input
18	PWM	—	———
19	TP	—	Ground
20	WVEL	I	High speed status signal input
21	DEMPH	I	De-emphasis signal input
22	CSEL	I	+5 V input
23	192FS	—	———
24	768FS	O	Clock output (f=16.9344 MHz)

•IC706 (MN6626)

Pin No.	Mark	I/O Division	Function
1	AVSS	—	Ground
2	IREF	I	Reference current input
3	ARF	I	RF signal input
4	DRF	I	DSL bias input
5	DSLF	O	DSL loop filter
6	PLLF	I	PLL loop filter
7	AVDD	I	Power supply (+5 V input)
8	RSEL	I	+5 V input
9 ~ 16	TBUS7 ~ TBUS0	—	Test terminal (Ground)
17	FLAG	—	———
18	IPFLAG		
19	FCLK		
20	BTYCK		
21	WDCK		
22	/RST	I	Reset signal input
23	TX	O	Digital audio interface signal output
24	LDG	—	———
25	RDG		
26	SRDATA	O	Serial data output
27	SCK	O	Serial bit clock output
28	LRCK	O	Clock output
29	XCK	O	Clock output (f=16.9344 MHz)
30	PMCK	—	———
31	CSEL	I	+5 V input
32	PSEL	—	Ground
33	×1	I	Clock input (f=16.9344 MHz)
34	×2	—	———
35	VSS	—	Ground
36	SUBQ	O	Sub-code (Q data) output
37	SQCK	I	Sub-code (Q data) clock input f=7.3 kHz
38	/CLDCK	—	———
39	BLKCK	O	Sub-code block (Q data) clock f=75 Hz
40	DEMPH	O	De-emphasis ON signal output
41	MEMP	I	Enphasis signal input
42	MLD	I	Command load signal input
43	MCLK	I	Command clock signal input
44	MDATA	I	Command data input
45	DMUTE	I	Muting control signal input
46	SMCK	O	Clock output (f=4.2336 MHz)
47	STAT	O	Status signal output
48	CRC	—	———
49	SUBC	—	———
50	SBCK	I	Clock for sub-code serial output
51	/TRON	I	Tracking servo ON signal input
52	CLVS	O	Spindle servo signal output
53	PC	—	———
54	ECM	O	Spindle motor control signal output
55	ECS	O	Spindle motor control signal output
56	VDD	I	Power supply (+5 V input)
57	/TEST	I	+5 V input
58	SSEL	I	+5 V input
59	MSEL	—	———
60	RESY	—	———
61	DO	I	Drop out signal input
62	EFM	—	———
63	PCK		
64	PDO		

•IC601 (MN

Pin No.	Mar
1	VD
2	OSC
3	OSC
4	VSS
5	XI
6	XC
7	VRE
8	ADI
9	ADI
10	ADI
11	MB
12	MB
13	ADI
14	ADI
15	ADI
16	VRE
17	JOG
18	JOG
19	BEE
20	LAT
21	MKDA
22	MKC
23	AGCI
24	AGDA
25	PLL
26	POW CON
27	MU
28	PLL
29	AGCI
30	PLL

nput
output
l input
input
tput
output
Reset)
344 MHz)
nal input
stment
ut
al input
put
44 MHz)

•IC706 (MN6626)

Pin No.	Mark	I/O Division	Function
1	AVSS	—	Ground
2	IREF	I	Reference current input
3	ARF	I	RF signal input
4	DRF	I	DSL bias input
5	DSLF	O	DSL loop filter
6	PLLF	I	PLL loop filter
7	AVDD	I	Power supply (+5 V input)
8	RSEL	I	+5 V input
9 ≀ 16	TBUS7 ≀ TBUS0	—	Test terminal (Ground)
17	FLAG	—	———
18	IPFLAG		
19	FCLK		
20	BTYCK		
21	WDCK		
22	/RST	I	Reset signal input
23	TX	O	Digital audio interface signal output
24	LDG	—	———
25	RDG		
26	SRDATA	O	Serial data output
27	SCK	O	Serial bit clock output
28	LRCK	O	Clock output
29	XCK	O	Clock output (f=16.9344 MHz)
30	PMCK	—	———
31	CSEL	I	+5 V input
32	PSEL	—	Ground
33	×1	I	Clock input (f=16.9344 MHz)
34	×2	—	———
35	VSS	—	Ground

Pin No.	Mark	I/O Division	Function
36	SUBQ	O	Sub-code (Q data) output
37	SQCK	I	Sub-code (Q data) clock input f=7.3 kHz
38	/CLDCK	—	———
39	BLKCK	O	Sub-code block (Q data) clock f=75 Hz
40	DEMPH	O	De-emphasis ON signal output
41	MEMP	I	Enphasis signal input
42	MLD	I	Command load signal input
43	MCLK	I	Command clock signal input
44	MDATA	I	Command data input
45	DMUTE	I	Muting control signal input
46	SMCK	O	Clock output (f=4.2336 MHz)
47	STAT	O	Status signal output
48	CRC	—	———
49	SUBC	—	———
50	SBCK	I	Clock for sub-code serial output
51	/TRON	I	Tracking servo ON signal input
52	CLVS	O	Spindle servo signal output
53	PC	—	———
54	ECM	O	Spindle motor control signal output
55	ECS	O	Spindle motor control signal output
56	VDD	I	Power supply (+5 V input)
57	/TEST	I	+5 V input
58	SSEL	I	+5 V input
59	MSEL	—	———
60	RESY	—	———
61	DO	I	Drop out signal input
62	EFM	—	———
63	PCK		
64	PDO		

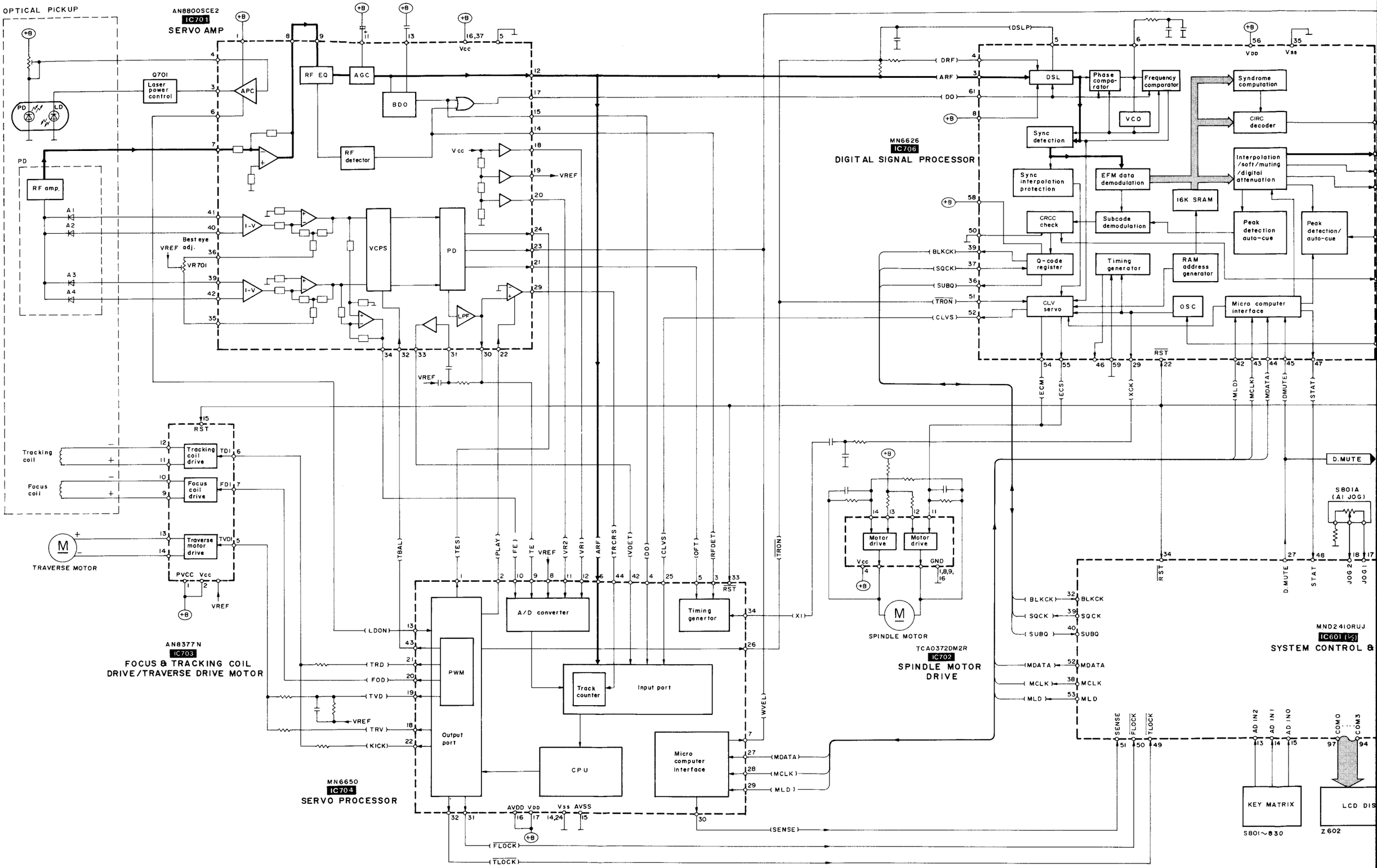
•IC601 (MND2410RUJ)

Pin No.	Mark	I/O Division	Function
1	VDD	I	+5 V
2	OSC1	O	Clock output (4 MHz)
3	OSC2	I	Clock input (4 MHz)
4	VSS	——	GND
5	XI	I	Clock input (32 kHz)
6	XO	O	Clock output (32 kHz)
7	VREF-	——	AD converter reference voltage (GND)
8	ADIN7	I	AD converter signal input (Tape deck switch)
9	ADIN6	I	AD converter signal input (Tape deck switch)
10	ADIN5	I	AD converter signal input (Tape deck switch)
11	MBP1	O	Beat proof control signal output
12	MBP2		
13	ADIN2	I	AD converter signal input (Deck operation switch)
14	ADIN1	I	AD converter signal input (CD operation switch)
15	ADIN0	I	AD converter signal input (Operation switch)
16	VREF+	I	AD converter reference Voltage (VDD)
17	JOG 1	I	Jog dial signal input
18	JOG 2		
19	BEEP	O	Beep signal output
20	LATCH	O	Electric volume control signal output
21	MKDATA	O	Deck control data output
22	MKCLK	O	Deck control clock output
23	AGCLK1	O	Audio signal control clock output
24	AGDATA	O	Audio signal control data output
25	PLL CL	O	PLL tuner clock signal output
26	POWER CONT	O	Power supply circuit control
27	MUTE	O	Muting control signal output
28	PLL CE	O	PLL tuner strove signal output
29	AGCLK2	O	Audio signal control signal control
30	PLL DI	O	PLL tuner control data signal output

Pin No.	Mark	I/O Division	Function
31	REMOCON IN	I	Remote control signal input
32	BLKCK	I	Sub code block clock input
33	STATUS	I	CD status signal input
34	CD RESET	I	CD reset signal input
35	RST	I	System reset signal input
36	MLD	O	CD signal process strove signal input
37	MDATA	O	CD signal process data input
38	MCLK	O	CD signal process clock signal input
39	CLDCK	O	CD sub-code clock output
40	SUBQ	I	CD sub-code data input
41	———	——	———
42	———	——	———
43	CM	——	GND
44	TLOCK	I	CD tracking signal input
45	FLOCK	I	CD focus lock signal input
46	CD REST SW	I	Rest switch signal input
47	CD OPEN SW	I	Disc tray open detection switch signal input
48	CD CLOSE SW	I	Disc tray close detection switch signal input
49	SENSE	I	CD sense signal input
50	REM STBY	I	Remote control sensor power control
51	POWER DET	I	Power detection signal input
52 ≀ 55	———	——	———
56	STEREO	I	PLL tuner stereo signal input
57	TUNE	I	PLL tuner tuning signal input
58, 59	DES1, DES2	——	———
60 ≀ 93	SEG34 ≀ SEG0	O	LCD segment signal output
94~ 97	COM3~ COM0	O	LCD common signal output
98~ 100	VLC3~ VLC1	I	LCD bias reference voltage input

RX-DT505 RX-DT505

■ BLOCK DIAGRAM



MN6626
IC706
DIGITAL SIGNAL PROCESSOR

MN6475
IC705
DIGITAL FILTER & D/A CONVERTER

MN6241ORUJ
IC601 (1/2)
SYSTEM CONTROL & LCD DRIVE

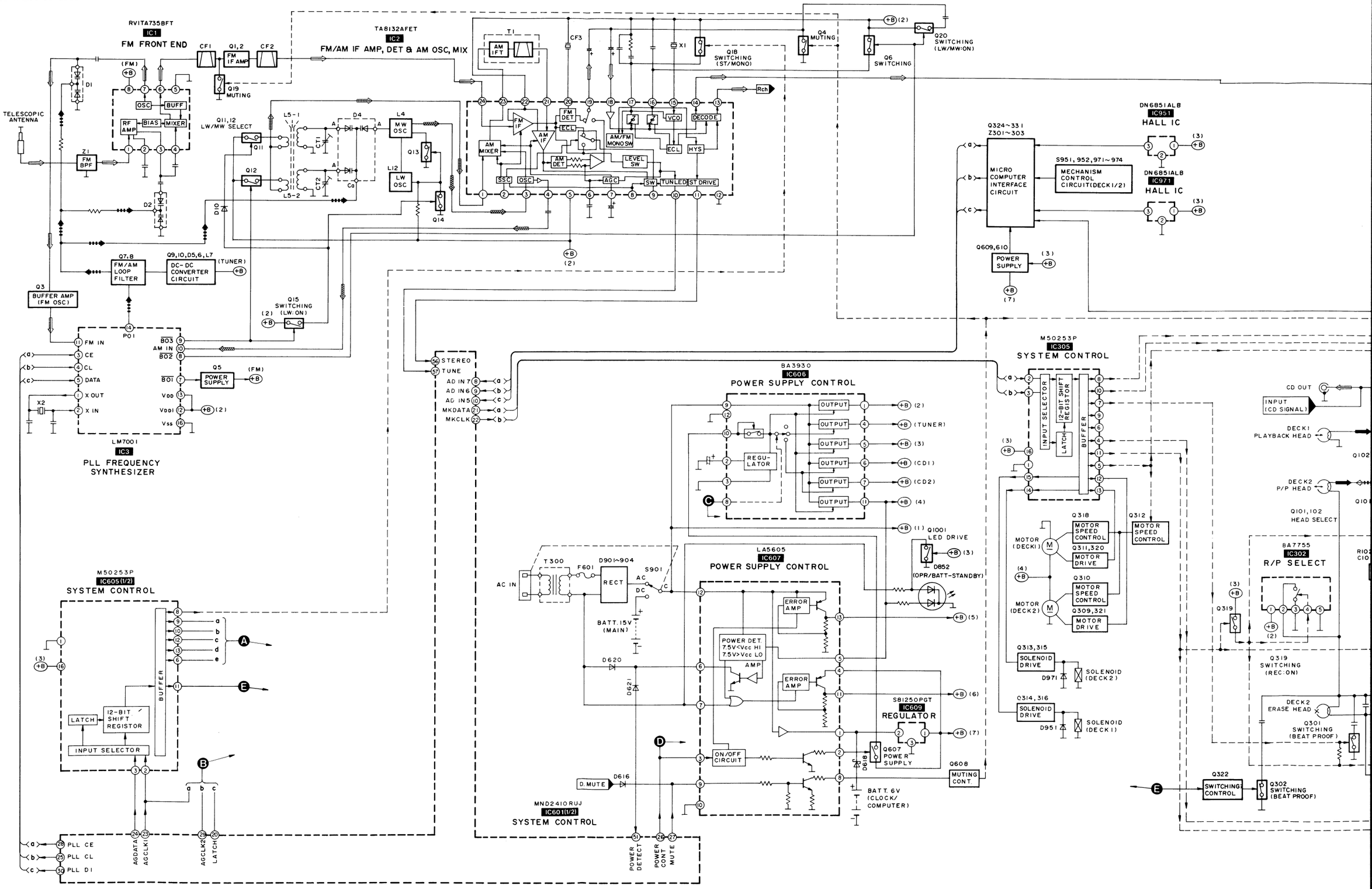
TCA0372DM2R
IC702
SPINDLE MOTOR DRIVE

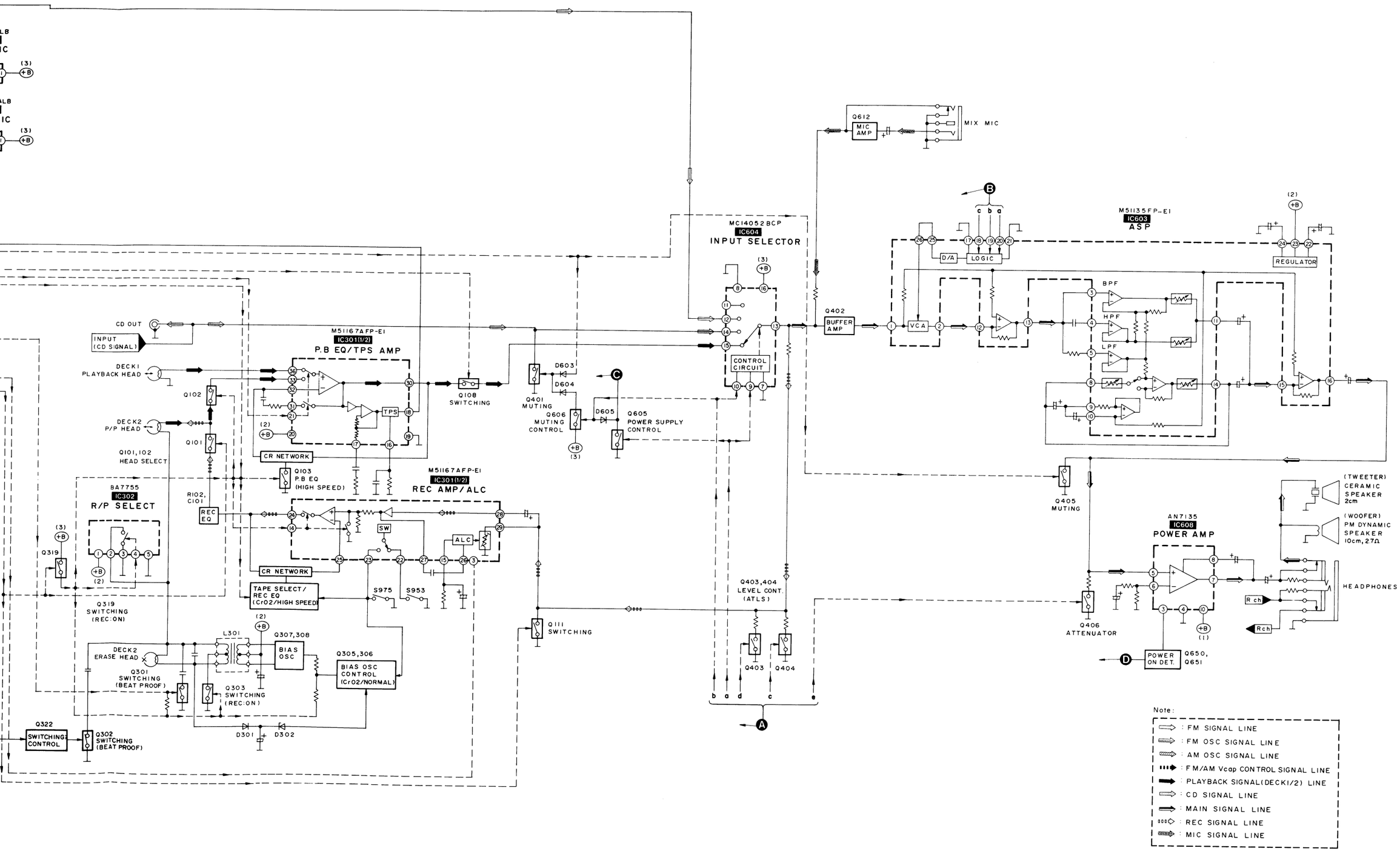
S8053HNB-T
IC602
RESET SIGNAL GENERATOR

M50253P
IC605;1/21
LOADING MOTOR CONTROL

TA7291S
IC790
LOADING MOTOR DRIVE

■ BLOCK DIAGRAM





Note:

- : FM SIGNAL LINE
- : FM OSC SIGNAL LINE
- : AM OSC SIGNAL LINE
- : FM/AM Vcap CONTROL SIGNAL LINE
- : PLAYBACK SIGNAL(DECK1/2) LINE
- : CD SIGNAL LINE
- : MAIN SIGNAL LINE
- : REC SIGNAL LINE
- : MIC SIGNAL LINE

■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Ass'y:
Supply period for three years from termination of production.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	RV1TA7358FT	I. C, FM FRONT END	
IC2	TA8132AFET	I. C, FM/AM IF	
IC3	LM7001	I. C, PLL FREQ	
IC301	M51167AFP-E1	I. C, P. B EQ/REC AMP/ALC	
IC302	BA7755	I. C, R/P SELECT	
IC305	M50253P	I. C, SYSTEM CONTROL	
IC601	MND2410RUJ	I. C, SYSTEM CONTROL	
IC602	S8053HNB-T	I. C, RESET	
IC603	M51135FP-E1	I. C, ASP	
IC604	MC14052BCP	I. C, INPUT SELECTOR	
IC605	M50253P	I. C, SYSTEM CONTROL	
IC606	BA3930	I. C, POWER SUPPLY CONT.	
IC607	LA5605	I. C, POWER SUPPLY CONT.	
IC608	AN7135	I. C, POWER AMP	
IC609	S81250PGT	I. C, REGULATOR	
IC701	AN8800SCE2	I. C, SERVO AMP	
IC702	TCA0372DM2R	I. C, SPINDLE MOTOR DRIVE	
IC703	AN8377N	I. C, TRAVERSE MOTOR DRIVE	
IC704	MN6650	I. C, DIGITAL SERVO PROCESSOR	
IC705	MN6475	I. C, DIGITAL FILTER	
IC706	MN6626	I. C, DIGITAL SIGNAL PRO.	
IC790	TA7291S	I. C, MOTOR DRIVE	
IC951	DN6851ALB	I. C, HALL	
IC971	DN6851ALB	I. C, HALL	
		TRANSISTOR(S)	
Q1, 2	2SC3313B	TRANSISTOR	
Q3	2SC1674LTA	TRANSISTOR	
Q4	2SC3311R	TRANSISTOR	
Q5, 6	RVTDTA143XST	TRANSISTOR	
Q7-9	2SC3311R	TRANSISTOR	
Q10	2SC3311R	TRANSISTOR	
Q11, 12	2SA1309R	TRANSISTOR	
Q13, 14	2SC3311R	TRANSISTOR	
Q15	RVTDTA143XST	TRANSISTOR	
Q18	2SK381CTA	TRANSISTOR	
Q19	RVTDTC114TST	TRANSISTOR	
Q20	RVTDTA143XST	TRANSISTOR	
Q101, 102	2SJ40CDTA	TRANSISTOR	
Q103-105	UN4210-S	TRANSISTOR	
Q108	2SJ40CDTA	TRANSISTOR	
Q111	UN4210-S	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q201, 202	2SJ40CDTA	TRANSISTOR	
Q203-205	UN4210-S	TRANSISTOR	
Q208	2SJ40CDTA	TRANSISTOR	
Q211	UN4210-S	TRANSISTOR	
Q301, 302	2SC3311AR	TRANSISTOR	
Q303	2SD1450RTA	TRANSISTOR	
Q305	UN4217TA	TRANSISTOR	
Q306	2SC3311R	TRANSISTOR	
Q307, 308	2SD1450RTA	TRANSISTOR	
Q309	2SD965Q	TRANSISTOR	
Q310	2SK381BCDTA	TRANSISTOR	
Q311	2SD965Q	TRANSISTOR	
Q312	UN4210-S	TRANSISTOR	
Q313, 314	2SB1030QRSTA	TRANSISTOR	
Q315, 316	UN4216-S	TRANSISTOR	
Q318	2SK381BCDTA	TRANSISTOR	
Q319-321	UN411FTA	TRANSISTOR	
Q322	UN4214TA	TRANSISTOR	
Q324-328	2SC3311R	TRANSISTOR	
Q329	UN4215	TRANSISTOR	
Q330, 331	2SC3311R	TRANSISTOR	
Q401	2SC3311R	TRANSISTOR	
Q402	2SC3312RTA	TRANSISTOR	
Q403-406	2SC3311R	TRANSISTOR	
Q501	2SC3311R	TRANSISTOR	
Q502	2SC3312RTA	TRANSISTOR	
Q503-506	2SC3311R	TRANSISTOR	
Q601, 602	2SC3311R	TRANSISTOR	
Q605	UN4214TA	TRANSISTOR	
Q606	UN4111	TRANSISTOR	
Q607	2SA1309R	TRANSISTOR	
Q608	UN4111	TRANSISTOR	
Q609	UN4213	TRANSISTOR	
Q610	UN411FTA	TRANSISTOR	
Q612	2SC3312RTA	TRANSISTOR	
Q650	UN4111	TRANSISTOR	
Q651	UN4213	TRANSISTOR	
Q701	2SB709	TRANSISTOR	
Q1001	UN4214TA	TRANSISTOR	
		DIODE(S)	
D1, 2	1SV147T4MATU	DIODE	
D3	MA4051MTA	DIODE	
D4	RVDKV12357Z2	DIODE	
D5	MA4130M	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D6	MA165	DIODE	
D10	MA165	DIODE	
D301	RVD1SS133TA	DIODE	
D302	RVDMTZ4R7BTA	DIODE	
D303, 304	RVD1SS133TA	DIODE	
D602-605	MA165	DIODE	
D607	RVDMTZ6R8BTA	DIODE	
D609	RVDMTZ6R8BTA	DIODE	
D615-617	MA165	DIODE	
D618	RB441QT77	DIODE	
D619	MA4051MTA	DIODE	
D620, 621	MA165	DIODE	
D701	MA110TW	DIODE	
D852	LN11CP38SSTD	LED	
D901-904	1N5402B-M21	LED	
D906	1SS293TPE4	DIODE	
D951	RVD1SS133TA	DIODE	
D971	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR301	RVNCC14B1T-A	V. R, TAPE SPEED ADJ.	(HIGH/DECK2)
VR302	RVNCC24B1T-A	V. R, TAPE SPEED ADJ.	(NORMAL/DECK2)
VR303	RVNCC73B1T-A	V. R, TAPE SPEED ADJ.	(NORMAL/DECK1)
VR701	EVNDXAA00B14	V. R, BEST EYE ADJ.	
		COMPONENT COMBINATION(S)	
Z1	RXABPWB6A	COMPONENT COMBINATION	
Z301-303	EXBF6L306SYV	COMPONENT COMBINATION	
Z601	RCDGP1U58YD	REMOTE SENSOR	
Z602	RSL5058-L	LCD	
Z603	RAT0007	BUZZER(BEEP)	
		COIL(S)	
L3	RLQZP4R7KT-Y	COIL	
L4	RL02B001-T	COIL	
L5	RLV6C003-0	COIL	
L7	RL09B18-M	COIL	
L8, 9	RLQZP221KT-Y	COIL	
L12	RL01B001-T	COIL	
L15	RLQZP221KT-Y	COIL	
L17	RLQZP4R7KT-Y	COIL	
L301	RL08C002M-T	COIL	
L302, 303	RLQZB470KT-D	COIL	
L401	ELEXT221KA9	COIL	
L501	ELEXT221KA9	COIL	
L601	ELEXT2R2KA9	COIL	
L605-609	ELEXT2R2KA9	COIL	
L622	RLQZV101KT-D	COIL	
L801	RLL500050T-Y	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L901, 902	RLQZB1R5KT-D	COIL	
L1001-1006	RLL500050T-Y	COIL	
		TRANSFORMER(S)	
T1	RLI2B007-T	COIL	
T300 ⚠	RTP1U1B001-C	POWER TRANSFORMER	
		FILTER(S)	
CF1, 2	RLFFETMLA02D	CERAMIC FILTER	
CF3	RLFDFTA01D	CERAMIC FILTER	
		OSCILLATOR(S)	
X1	RSXZ456KM01	OSCILLATOR	
X2	RSXC7M20S03	OSCILLATOR	
X701	RSXZ33M8M01T	OSCILLATOR	
X801	RSXD32K7S03	OSCILLATOR	
X802	RVBCSA3R9MGT	OSCILLATOR	
		FUSE(S)	
F601 ⚠	XBA2C31TB0U	FUSE	
		SWITCH(ES)	
S701	SSHD5-E	SW, REST	
S790	RSH1A005	SW, TRAY OPEN	
S791	RSH1A005	SW, TRAY CLOSE	
S801A	EVQWPGF1012B	SW, AI JOG	
S801	EVQ21405R	SW, COUNTER RESET	
S802	EVQ21405R	SW, REV MODE	
S803	EVQ21405R	SW, DECK 1/2	
S804	EVQ21405R	SW, PLAY TIMER	
S805	EVQ21405R	SW, REC-TIMER	
S806	EVQ21405R	SW, SLEEP	
S807	EVQ21405R	SW, SET	
S808	EVQ21405R	SW, REC PAUSE	
S809	EVQ21405R	SW, ATLS	
S810	EVQ21405R	SW, TONE LEVEL	
S811	EVQ21405R	SW, CANCEL	
S812	EVQ21405R	SW, CD EDIT	
S813	EVQ21405R	SW, TUNING MODE	
S814	EVQ21405R	SW, S-XBS LEVEL	
S815	EVQ21405R	SW, BEEP	
S816	EVQ21405R	SW, ONE-TOUCH EDIT	(HIGH)
S817	EVQ21405R	SW, ONE-TOUCH EDIT	(NOR)
S818	EVQ21405R	SW, OPEN/CLOSE	
S819	EVQ21405R	SW, VOLUME +	
S820	EVQ21405R	SW, VOLUME -	
S821	EVQ21405R	SW, TUNER BAND	

Ref. No.	Par
S822	EVQ214
S823	EVQ214
S824	EVQ214
S825	EVQ214
S826	EVQ214
S827	EVQ214
S828	EVQ214
S829	EVQ214
S830	EVQ214
S901 ⚠	RJJ1SB
S951	RSH1A8
S952	RSH1A9
S953	RSH1A9
S971	RSH1A8
S972	RSH1A9
S973	RSH1A9
S974	RSH1A9
S975	RSH1A9
CM801	RJS1A6
CP1	RJT028
CP11	RJT057
CP21	RJT057
CP301	RJP5G1
CP302	SJTD41
CP307	RJT028
CP309	RJT028
CP601	RJT060
CP801	RJT028
CP901	RJP4G9
CP902	RJP3G4
CP3071	RJT057
CP3091	RJT057
CS2	RJT028
CS11	RJU057
CS12	RJU028
CS21	RJU057
CS22	RJU028
CS801	RJU028
CS3071	RJU057
CS3072	RJU028
CS3091	RJU057
CS3092	RJU028
CS7201	RJS1A8
TP1	RJP3G1
CP701	RJP2G1
CP702	RJP2G1
CP703	RJP4G1
CP790	RJP6G1

Remarks

Ref. No.	Part No.	Values & Remarks
R508	ERDS2TJ473	1/4W 47K
R509	ERDS2TJ472	1/4W 4.7K
R510	ERDS2TJ684	1/4W 680K
R511	ERDS2TJ681	1/4W 680
R512	ERDS2TJ102	1/4W 1K
R513	ERDS2TJ332	1/4W 3.3K
R514	ERDS2TJ2R2T	1/4W 2.2
R515	ERDS2TJ153	1/4W 15K
R516	ERDS2TJ273	1/4W 27K
R517	ERDS2TJ181T	1/4W 180
R520	ERDS2TJ331	1/4W 330
R521	ERDS2TJ101	1/4W 100
R522	ERDS2TJ683	1/4W 68K
R551, 552	ERDS2TJ472	1/4W 4.7K
R553	ERDS2TJ103	1/4W 10K
R554	ERDS2TJ334	1/4W 330K
R555	ERDS2TJ182	1/4W 1.8K
R601, 602	ERDS2TJ682T	1/4W 6.8K
R603	ERDS2TJ103	1/4W 10K
R604	ERDS2TJ823T	1/4W 82K
R605	ERDS2TJ104	1/4W 100K
R606	ERDS2TJ823T	1/4W 82K
R607-610	ERDS2TJ103	1/4W 10K
R611	ERDS2TJ102	1/4W 1K
R612	ERDS2TJ105T	1/4W 1M
R613	ERDS2TJ106T	1/4W 10M
R614	ERDS2TJ224T	1/4W 220K
R615	ERDS2TJ104	1/4W 100K
R616-618	ERDS2TJ153	1/4W 15K
R619-623	ERDS2TJ472	1/4W 4.7K
R627	ERDS2TJ222	1/4W 2.2K
R629, 630	ERDS2TJ474	1/4W 470K
R632, 633	ERDS2TJ103	1/4W 10K
R634	ERDS2TJ104	1/4W 100K
R635	ERDS2TJ103	1/4W 10K
R636, 637	ERDS2TJ472	1/4W 4.7K
R639	ERDS2TJ104	1/4W 100K
R641	ERDS2TJ180T	1/4W 18
R642	ERDS2TJ102	1/4W 1K
R643	ERDS2TJ101	1/4W 100
R644	ERDS2TJ472	1/4W 4.7K
R647	ERDS2TJ221	1/4W 220
R649	ERDS2TJ393	1/4W 39K
R650	ERDS2TJ103	1/4W 10K
R651, 652	ERDS2TJ222	1/4W 2.2K
R653-656	ERDS2TJ103	1/4W 10K
R657, 658	ERDS2TJ104	1/4W 100K
R659	ERDS2TJ1R5T	1/4W 1.5
R662	ERDS2TJ472	1/4W 4.7K
R663	ERDS2TJ101	1/4W 100
R664	ERDS2TJ223	1/4W 22K
R665	ERDS2TJ472	1/4W 4.7K

Ref. No.	Part No.	Values & Remarks
R667	ERDS2TJ333	1/4W 33K
R668, 669	ERDS2TJ472	1/4W 4.7K
R670-675	ERDS2TJ103	1/4W 10K
R676, 677	ERDS2TJ102	1/4W 1K
R678	ERDS2TJ472	1/4W 4.7K
R680	ERDS2TJ473	1/4W 47K
R681	ERDS2TJ103	1/4W 10K
R682	ERDS2TJ333	1/4W 33K
R683	ERDS2TJ222	1/4W 2.2K
R684-689	ERDS2TJ472	1/4W 4.7K
R692	ERDS2TJ472	1/4W 4.7K
R694	ERDS2TJ122	1/4W 1.2K
R695-698	ERDS2TJ472	1/4W 4.7K
R699	ERDS2TJ334	1/4W 330K
R701	ERJ6GEYJ100	1/10W 10
R702	ERJ6GEYJ471V	1/10W 470
R703	ERJ6GEYJ102V	1/10W 1K
R704	ERJ6GEYJ103V	1/10W 10K
R706	ERJ6GEYJ473V	1/10W 47K
R707	ERJ6GEYJ222V	1/10W 2.2K
R708	ERJ6GEYJ683V	1/10W 68K
R709	ERJ6GEYJ122V	1/10W 1.2K
R710	ERJ6GEYJ182V	1/10W 1.8K
R711	ERJ6GEYJ473V	1/10W 47K
R712	ERJ6GEYJ471V	1/10W 470
R714	ERJ6GEYJ473V	1/10W 47K
R715	ERJ6GEYJ223V	1/10W 22K
R716	ERJ6GEYJ104V	1/10W 100K
R717	ERJ6GEYJ682V	1/10W 6.8K
R718	ERJ6GEYJ223V	1/10W 22K
R719	ERJ6GEYJ123V	1/10W 12K
R720	ERJ6GEYJ273V	1/10W 27K
R721	ERJ6GEYJ823	1/10W 82K
R722	ERJ6GEYJ102V	1/10W 1K
R723	ERJ6GEYJ104V	1/10W 100K
R724	ERJ6GEYJ104V	1/10W 100K
R725	ERJ6GEYJ471V	1/10W 470
R726	ERJ6GEYJ102V	1/10W 1K
R729	ERJ6GEYJ102V	1/10W 1K
R730	ERJ6GEYJ102V	1/10W 1K
R731	ERJ6GEYJ470V	1/10W 47
R732	ERJ6GEYJ562V	1/10W 5.6K
R733	ERJ6GEYJ332V	1/10W 3.3K
R734	ERJ6GEYJ562V	1/10W 5.6K
R735	ERJ6GEYJ222V	1/10W 2.2K
R736	ERJ6GEYJ682V	1/10W 6.8K
R737	ERJ6GEYJ562V	1/10W 5.6K
R738	ERJ6GEYJ562V	1/10W 5.6K
R739	ERJ6GEYJ562V	1/10W 5.6K
R741	ERJ6GEYJ102V	1/10W 1K
R742	ERJ6GEYJ102V	1/10W 1K
R743	ERJ6GEYJ102V	1/10W 1K

Ref. No.	Part No.	Values & Remarks
R744	ERJ6GEYJ393V	1/10W 39K
R745	ERJ6GEYJ102V	1/10W 1K
R746	ERJ6GEYJ102V	1/10W 1K
R747	ERJ6GEYJ473V	1/10W 47K
R748	ERJ6GEYJ180	1/10W 18
R749	ERJ6GEYJ101	1/10W 100
R801	ERDS2TJ220T	1/4W 22
R802	ERDS2TJ472	1/4W 4.7K
R807-809	ERDS2TJ104	1/4W 100K
R810	ERDS2TJ472	1/4W 4.7K
R811-813	ERDS2TJ103	1/4W 10K
R814	ERDS2TJ104	1/4W 100K
R817	ERDS2TJ683	1/4W 68K
R818	ERDS2TJ154	1/4W 150K
R819	ERDS2TJ220T	1/4W 22
R820	ERDS2TJ221	1/4W 220
R821	ERDS2TJ330	1/4W 33
R822	ERDS2TJ472	1/4W 4.7K
R853, 854	ERDS2TJ562	1/4W 5.6K
R855	ERDS2TJ472	1/4W 4.7K
R856	ERDS2TJ822	1/4W 8.2K
R857	ERDS2TJ153	1/4W 15K
R858	ERDS2TJ333	1/4W 33K
R859	ERDS2TJ823T	1/4W 82K
R860	ERDS2TJ152	1/4W 1.5K
R861	ERDS2TJ222	1/4W 2.2K
R862	ERDS2TJ272T	1/4W 2.7K
R863	ERDS2TJ392T	1/4W 3.9K
R864	ERDS2TJ562	1/4W 5.6K
R865	ERDS2TJ822	1/4W 8.2K
R866	ERDS2TJ153	1/4W 15K
R867	ERDS2TJ333	1/4W 33K
R868	ERDS2TJ823T	1/4W 82K
R869	ERDS2TJ152	1/4W 1.5K
R870	ERDS2TJ222	1/4W 2.2K
R871	ERDS2TJ272T	1/4W 2.7K
R872	ERDS2TJ152	1/4W 1.5K
R873	ERDS2TJ222	1/4W 2.2K
R874	ERDS2TJ152	1/4W 1.5K
R875	ERDS2TJ222	1/4W 2.2K
R876	ERDS2TJ272T	1/4W 2.7K
R877	ERDS2TJ392T	1/4W 3.9K
R878	ERDS2TJ562	1/4W 5.6K
R879	ERDS2TJ822	1/4W 8.2K
R880	ERDS2TJ153	1/4W 15K
R881	ERDS2TJ333	1/4W 33K
R882	ERDS2TJ823T	1/4W 82K
R883	ERDS2TJ103	1/4W 10K
R884	ERDS2TJ392T	1/4W 3.9K
R885	ERDS2EJ121	1/4W 120
R1001	ERDS2TJ820	1/4W 82
R1007	ERDS2TJ104	1/4W 100K

Ref. No.	Part No.	Values & Remarks
R1008	ERDS2TJ104	1/4W 100K
R1009	ERDS2TJ271	1/4W 270
R1010	ERDS2EJ121	1/4W 120
R1011, 1012	ERDS2TJ472	1/4W 4.7K
R1013	ERDS2EJ121	1/4W 120
		CHIP JUMPER
RJ701	ERJ6GEY0R00V	1/10W 0
RJ703	ERJ6GEY0R00V	1/10W 0
RJ704	ERJ6GEY0R00V	1/10W 0
RJ705	ERJ6GEY0R00V	1/10W 0
RJ706	ERJ6GEY0R00V	1/10W 0
RJ707	ERJ6GEY0R00V	1/10W 0
RJ708	ERJ6GEY0R00V	1/10W 0
RJ809	ERJ6GEY0R00V	1/10W 0
RJ710	ERJ6GEY0R00V	1/10W 0
		CAPACITORS
C1	ECBT1H180JC5	50V 18P
C2	ECBT1H102KB5	50V 1000P
C3	ECBT1H330J5	50V 33P
C4	ECBT1H102KB5	50V 1000P
C5	ECBT1C103MS5	16V 0.01U
C6, 7	ECBT1H181KB5	50V 180P
C8	ECBT1H102KB5	50V 1000P
C9	ECBT1H4R7KC5	50V 4.7P
C10	ECBT1H2R2KC5	50V 2.2P
C11, 12	ECBT1H102KB5	50V 1000P
C14, 15	ECBT1H102KB5	50V 1000P
C18	ECBT1H150JC5	50V 15P
C19	ECBT1H100JC5	50V 10P
C20	ECFR1C473MR	16V 0.047U
C23	ECEA1HN010	50V 1U
C24	ECBT1C103MS5	16V 0.01U
C25	ECFR1C223MR	16V 0.022U
C26	ECEA1CU101	16V 100U
C27	ECBT1C103MS5	16V 0.01U
C29	ECEA1HU010	50V 1U
C30	ECBT1H270J5	50V 27P
C31	ECEA1AU470	10V 47U
C32	ECFR1C223MR	16V 0.022U
C33, 34	ECEA1CU100	16V 10U
C35	ECFR1C223MR	16V 0.022U
C36	ECBT1H331KB5	50V 330P
C37	ECFR1C683MR	16V 0.068U
C38, 39	ECFR1C823MR	16V 0.082U
C40, 41	ECFR1C123MR	16V 0.012U
C44	ECBT1H330J5	50V 33P
C45	ECFR1C223MR	16V 0.022U
C46	ECEA0JU101B	6.3V 100U

Ref. No.	Part No.	Values & Remarks
C47	ECFR1C223MR	16V 0.022U
C48	ECEA1CU100	16V 10U
C49	ECBT1H270J5	50V 27P
C50	ECBT1H300J5	50V 30P
C51	ECBT1H102KB5	50V 1000P
C52	ECEA1EU3R3	25V 3.3U
C53	ECEA1HU010	50V 1U
C62	ECFR1C103MR	16V 0.01U
C63	ECBT1H150JC5	50V 15P
C64, 65	ECFR1C223MR	16V 0.022U
C66	ECBT1H102KB5	50V 1000P
C67	ECBT1H471KB5	50V 470P
C69	ECBT1C332MR5	16V 3300P
C71	ECBT1H102KB5	50V 1000P
C72	ECBT1H331KB5	50V 330P
C73	ECFR1C223MR	16V 0.022U
C74	ECBT1H470J5	50V 47P
C77	ECBT1H181KB5	50V 180P
C78	ECBT1H331KB5	50V 330P
C82	ECBT1C103MS5	16V 0.01U
C101	ECBT1H102KB5	50V 1000P
C104	ECFR1C333JR	16V 0.033U
C105, 106	ECBT1H471KB5	50V 470P
C107	ECFR1C183KR	16V 0.018U
C108	ECEA1HK010B	50V 1U
C109	ECEA1EK4R7	25V 4.7U
C110	ECEA1HK010B	50V 1U
C111	ECBT1H151KB5	50V 150P
C112	ECFR1C473MR	16V 0.047U
C113	ECEA1HK010B	50V 1U
C115	ECBT1H151KB5	50V 150P
C116	ECBT1H221KB5	50V 220P
C117	ECEA1EK4R7	25V 4.7U
C118	ECBT1H102KB5	50V 1000P
C119	ECBT1C332MR5	16V 3300P
C124	ECEA0JU221	6.3V 220U
C201	ECBT1H102KB5	50V 1000P
C204	ECFR1C333JR	16V 0.033U
C205, 206	ECBT1H471KB5	50V 470P
C207	ECFR1C183KR	16V 0.018U
C208	ECEA1HK010B	50V 1U
C209	ECEA1EK4R7	25V 4.7U
C210	ECEA1HK010B	50V 1U
C211	ECBT1H151KB5	50V 150P
C212	ECFR1C473MR	16V 0.047U
C213	ECEA1HK010B	50V 1U
C215	ECBT1H151KB5	50V 150P
C216	ECBT1H221KB5	50V 220P
C217	ECEA1EK4R7	25V 4.7U
C218	ECBT1H102KB5	50V 1000P
C219	ECBT1C332MR5	16V 3300P
C224	ECEA0JU221	6.3V 220U

Ref. No.	Part No.	Values & Remarks
C301	ECBT1C103MS5	16V 0.01U
C302	ECEA1HKNR47B	50V 0.47U
C303	ECQP2A152JZT	100V0.0015U
C304	ECQS2B272KZW	125V 2700P
C305	ECBT1C103MS5	16V 0.01U
C306	ECQP2A392JZT	100V 3900P
C307	ECEA1HU010	50V 1U
C308	ECQV1H473JZ3	50V 0.047U
C309	ECEA1AU101	10V 100U
C310, 311	ECBT1H102KB5	50V 1000P
C312, 313	ECFR1C103KR	16V 0.01U
C315	ECEA1AU330	10V 33U
C316	ECEA1AU101	10V 100U
C318	ECEA1CK100B	16V 10U
C319	ECEA1HK0R1	50V 0.1U
C320	ECFR1C223MR	16V 0.022U
C321	ECEA1HK010B	50V 1U
C322	ECEA1CU101	16V 100U
C323	ECBT1C103MS5	16V 0.01U
C328	ECFR1C223MR	16V 0.022U
C329	ECEA0JU221	6.3V 220U
C331	ECBT1H104ZF5	50V 0.1U
C332	ECEA1AU330	10V 33U
C333	ECEA1HK0R1	50V 0.1U
C335	ECEA0JU470B	6.3V 47U
C336, 337	ECBA1H681KB5	50V 680P
C401	ECBT1H101KB5	50V 100P
C402	ECFR1C333MR	16V 0.033U
C403	ECFR1C223MR	16V 0.022U
C404	ECEA1AU222E	10V 2200U
C405	ECEA1AU101	10V 100U
C406	ECEA0JU101B	6.3V 100U
C407	ECBT1H471KB5	50V 470P
C410	ECQM1H224JZ	50V 0.22U
C411	ECEA1HK010B	50V 1U
C453	ECEA1CK100B	16V 10U
C454	ECBT1C222MR5	16V 2200P
C455, 456	ECFR1C223MR	16V 0.022U
C457	ECEA1CK100B	16V 10U
C458	ECEA1HKR33	50V 0.33U
C459	ECEA1HK0R1	50V 0.1U
C460	ECEA1HK010B	50V 1U
C462	ECEA1HK010B	50V 1U
C463, 464	ECEA1CK100B	16V 10U
C501	ECBT1H101KB5	50V 100P
C502	ECFR1C333MR	16V 0.033U
C503	ECFR1C223MR	16V 0.022U
C504	ECEA1AU222E	10V 2200U
C505	ECEA1AU101	10V 100U
C506	ECEA0JU101B	6.3V 100U
C507	ECBT1H471KB5	50V 470P
C510	ECQM1H224JZ	50V 0.22U

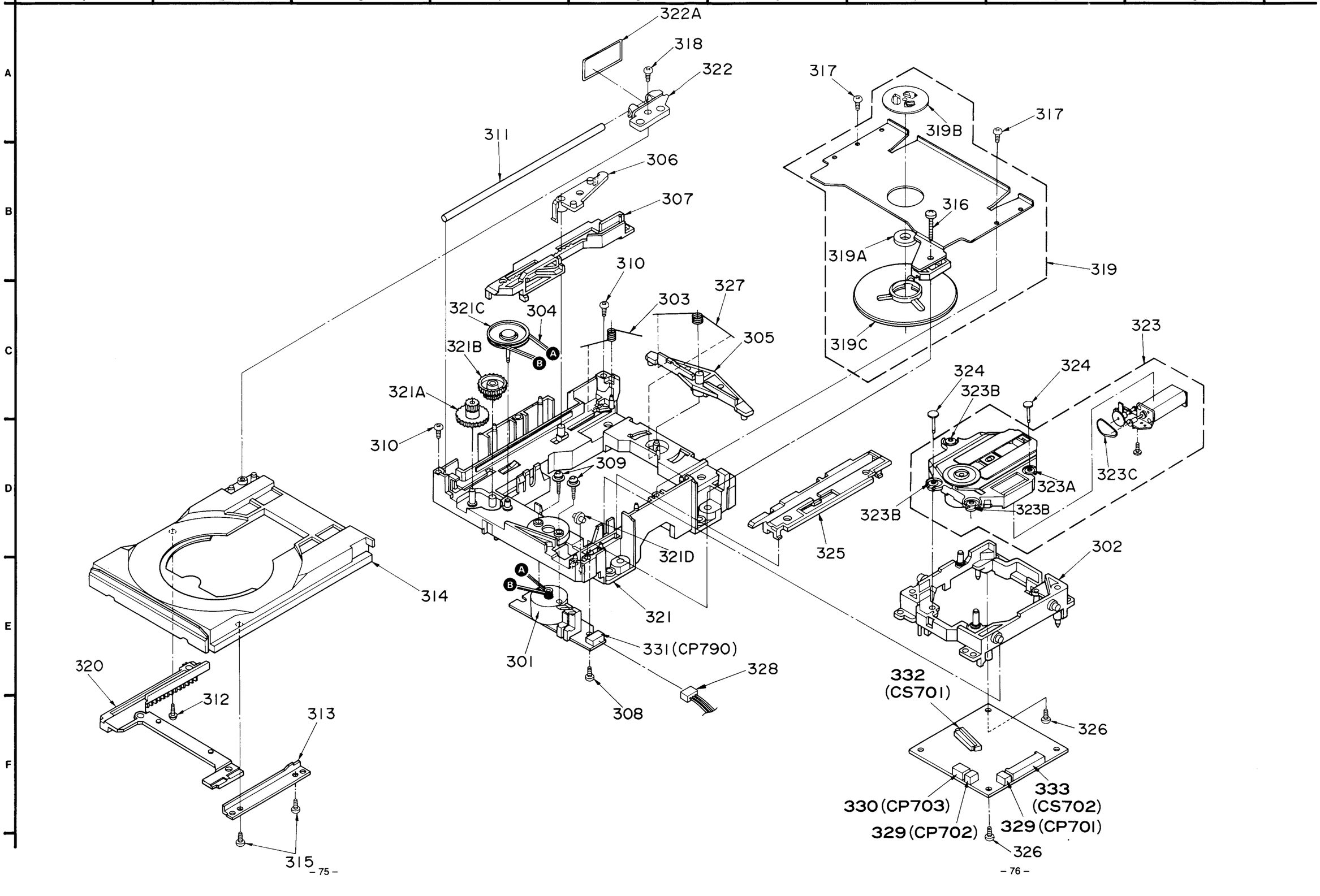
Ref. No.	Part No.	Values & Remarks
C511	ECEA1HK010B	50V 1U
C553	ECEA1CK100B	16V 10U
C554	ECBT1C222MR5	16V 2200P
C555, 556	ECFR1C223MR	16V 0.022U
C557	ECEA1CK100B	16V 10U
C558	ECEA1HKR33	50V 0.33U
C559	ECEA1HK0R1	50V 0.1U
C560	ECEA1HK010B	50V 1U
C562	ECEA1HK010B	50V 1U
C563, 564	ECEA1CK100B	16V 10U
C601, 602	ECBT1H102KB5	50V 1000P
C603-605	ECBT1C103MS5	16V 0.01U
C606	ECBT1H102KB5	50V 1000P
C607	ECA1AKF820B	10V 82U
C608	ECBT1H102KB5	50V 1000P
C609	ECEA0JK101	6.3V 100U
C610	ECBT1H820KB5	50V 82P
C611	ECBT1H470J5	50V 47P
C612, 613	ECBT1H101KB5	50V 100P
C614	ECBT1C103MS5	16V 0.01U
C615, 616	ECBT1H220JC5	50V 22P
C617	ECEA0JK470	6.3V 47U
C620	ECBT1C103MS5	16V 0.01U
C621	ECEA1AU101	10V 100U
C622	ECEA1EK4R7	25V 4.7U
C624, 625	ECBT1C103MS5	16V 0.01U
C627	ECEA1HK010B	50V 1U
C628	ECEA1AU101	10V 100U
C629	ECEA1AU221	10V 220U
C630-633	ECEA1EK4R7	25V 4.7U
C635-637	ECEA1EK4R7	25V 4.7U
C638	ECEA1HK010B	50V 1U
C640	ECBT1H471KB5	50V 470P
C642	ECA1EM472	25V 4700U
C643	ECEA1CK100B	16V 10U
C644	ECEA1EU221	25V 220U
C647, 648	ECBT1H102KB5	50V 1000P
C650	ECBT1H102KB5	50V 1000P
C651	ECEA1CU471B	16V 470U
C654-656	ECBT1H561KB5	50V 560P
C657, 658	ECBT1H821KB5	50V 820P
C659, 660	ECEA1HK010B	50V 1U
C661	ECEA1AU101	10V 100U
C667	ECEA1AK220	10V 22U
C670	ECBT1H102KB5	50V 1000P
C676	ECBT1H101KB5	50V 100P
C677-679	ECBT1H561KB5	50V 560P
C680	ECBT1H101KB5	50V 100P
C681	ECEA0JU101B	6.3V 100U
C701	ECEA0JKA220	6.3V 22U
C702	ECEA0JKS470	6.3V 47U
C703	ECEA0JKS1011	6.3V 100U

Ref. No.	Part No.	Values & Remarks
C709	ECUV1C224KBM	16V 0.22U
C710	ECUV1C104MBM	16V 0.1U
C711	ECUV1E103MBN	25V 0.01U
C713	ECEA1CSN4R7I	16V 4.7U
C714	ECEA1HKS010	50V 1U
C715	ECUV1H472KBN	50V 4700P
C716	ECUV1C473KBN	16V 0.047U
C717	ECUV1H681KBN	50V 680P
C718	ECEA1AKS101I	10V 100U
C719	ECUV1E103MBN	25V 0.01U
C720	ECUV1E153MBN	25V 0.015U
C721	ECUV1E103MBN	25V 0.01U
C722	ECEA0JKS470	6.3V 47U
C723	ECUV1C104MBN	16V 0.1U
C724	ECUV1E333MBN	25V 0.033U
C725	ECUV1E103MBN	25V 0.01U
C726	ECUV1H471KBN	50V 470P
C727	ECEA0JKS470	6.3V 47U
C728	ECUV1C104MBM	16V 0.1U
C729	ECUV1C104MBM	16V 0.1U
C730	ECUV1C224KBM	16V 0.22U
C731	ECEA0JKS331I	6.3V 330U
C732	ECUV1H102MBN	50V 1000P
C733	ECEA0JKS101I	6.3V 100U
C734	ECUV1E223MBN	25V 0.022U
C735	ECUV1C224KBM	16V 0.22U
C737	ECUV1C224KBM	16V 0.22U
C738	ECEA0JKS101I	6.3V 100U
C739	ECUV1E103MBN	25V 0.01U
C740	ECUV1H472MBN	50V 4700P
C741	ECUV1C224KBM	16V 0.22U
C742	ECUV1C104MBM	16V 0.1U
C743	ECEA0JKS331I	6.3V 330U
C744	ECUV1H102KBN	50V 1000P
C745	ECUV1H102KBN	50V 1000P
C746	ECEA0JKS101I	6.3V 100U
C747	ECUV1C104MBM	16V 0.1U
C748	ECEA1HKS010	50V 1U
C749	ECUV1E103MBN	25V 0.01U
C750	ECUV1H050DCN	50V 5P
C751	ECUV1C224KBM	16V 0.22U
C752	ECUV1C104MBM	16V 0.1U
C753	ECEA1HKS010	50V 1U
C754	ECEA1HKS010	50V 1U
C755	ECUV1C104MBM	16V 0.1U
C756	ECUV1H050DCN	50V 5P
C757	ECUV1H050DCN	50V 5P
C758	ECUV1C224KBM	16V 0.22U
C763	ECUV1E103MBN	25V 0.01U
C764	ECUV1H331KBN	50V 330P
C790	ECA1AKF820	10V 82U
C801, 802	ECEA1CK100B	16V 10U

Ref. No.	Part No.	Values & Remarks
C803	ECEA1EK4R7	25V 4.7U
C804	ECEA1AU101	10V 100U
C851, 852	ECBT1H561KB5	50V 560P
C855	ECBT1H561KB5	50V 560P
C901-904	ECQV1H154JZ3	50V 0.15U
C951	ECBT1H101KB5	50V 100P
C971	ECBT1H101KB5	50V 100P
C1002	ECEA1CK100B	16V 10U
C1012	ECEA0JU101B	6.3V 100U

Ref. No.	Part No.	Part Name & Description	Remarks
		LOADING UNIT	
301	REM0019	MOTOR ASS'Y	
302	RMK0105	CHASSIS	
303	RME0063	SPRING	
304	RMG0158	BELT	
305	RML0177	LEVER	
306	RML0178	LEVER	
307	RMM0058	SLIDE PLATE	
308	XTN26+6G	SCREW	
309	XYN2+F6FZ	SCREW	
310	RHD20010	SCREW	
311	RMU0046	SHAFT	
312	RHD20009-1	SCREW	
313	RMA0328	GUIDE	
314	RMK0103	TRAY	
315	XTN2+8G	SCREW	
316	XTB3+25GFZ	SCREW	
317	XTN26+6G	SCREW	
318	XTN3+8JFZ	SCREW	
319	RXQ0122	DISC CLAMPER ASS'Y	
319A	RHM245ZA	MAGNET	
319B	RMR0334	MAGNET HOLDER	
319C	RXQ0123	DISC PAD	
320	RFKNLDN7N-K	SLIDE GEAR	
321	RFKJXDT77-H	CHASSIS ASS'Y	
321A	RDG0142	GEAR	
321B	RDG0143	GEAR	
321C	RDP0041	PULLEY	
321D	SDRD14	ROLLER	
322	RFKNXDT77C-H	SHAFT HOLDER	
322A	RMG0159	RUBBER	
323	SODD110Z	TRAVERSE UNIT	
323A	SHGD112	RUBBER A	
323B	SHGD113-1	RUBBER B	
323C	RDV0014	BELT	
324	RMS0123-1	PIN	
325	RMM0059	SLIDE PLATE	
326	XTV26+6G	SCREW	
327	RME0087	SPRING	
328	REE0217-1	CABLE ASS'Y	
329	RJP2G17ZA	CONNECTOR(CP701, 702)	
330	RJP4G17ZA	CONNECTOR(CP703)	
331	RJP6G17ZA	CONNECTOR(CP790)	
332	RJU035T016-1	CONNECTOR(CS701)	
333	RJS1A6723-1Q	CONNECTOR(CS702)	

■ LOADING UNIT PARTS LOCATION

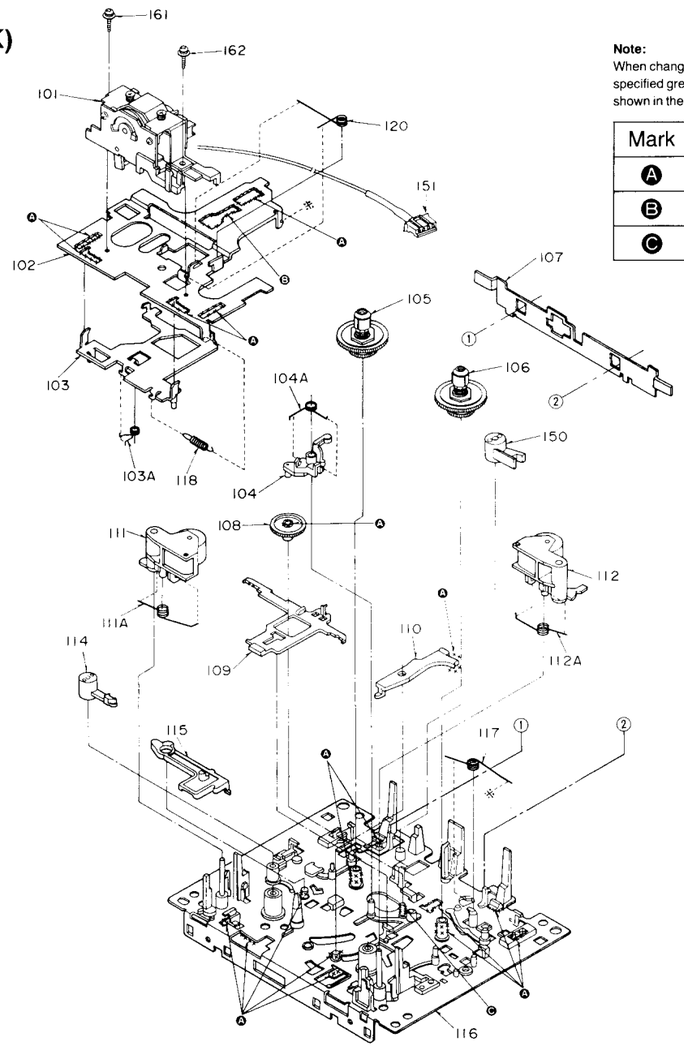


Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS	
		DECK 1(P. B)	
101	RXQ0051-2	HEAD ASS'Y	
102	RUA793Z	CHASSIS	
103	RZLAR300	LEVER ASS'Y	
103A	RUW143Z	SPRING	
104	1UB0089ZA	ARM	
104A	RUW148ZA	SPRING	
105	1DM00018ZB	REEL TABLE ASS'Y	
106	1DM00017ZB	REEL TABLE ASS'Y	
107	RUB502Z	LEVER	
108	RDG5772Z	GEAR	
109	RUB508ZA	LEVER	
110	RUB506Z	LEVER	
111	1UB0088ZB	PINCH ROLLER	
111A	RUW141Z	SPRING	
112	1UB0087ZB	PINCH ROLLER	
112A	RUW140Z	SPRING	
114	RNL1Z	ARM	
115	RUB503Z	LEVER	
116	RFKRRSCH9N	CHASSIS ASS'Y	
117	RUW142ZA	SPRING	
118	RUD105Z	SPRING	
120	RUW139ZA	SPRING	
121	RFM133ZA	MOTOR ASS'Y	
122	1UE0015ZA	PLUNGER	
123	RUB428Z	SHAFT	
124	RMA0101	PLATE	
125	RMD5014ZB	SPACER	
126	RDG5927ZG	GEAR	
127	1DW0037ZB	FLYWHEEL ASS'Y	
127A	RNW139Z	WASHER	
128	1DW0038ZB	FLYWHEEL ASS'Y	
128A	RNW138Z	WASHER	
129	1DG0006ZB	GEAR	
130	RUB513Z	LEVER	
131	1UB0091ZA	LEVER	
131A	RUW146ZA	SPRING	
132	1DR0011ZB	PULLEY ASS'Y	
133	RDV90ZB	BELT	
134	RDG5769ZA	GEAR	
135	RUQ111ZA	SPRING	
136	RUW145ZA	SPRING	
137	1UB0090ZA	ROD	
137A	RUB512Z	ROD	
138	RDG5773ZA	GEAR	
139	RUQ112ZA	SPRING	
140	RUS609Z	SPRING	
141	RUB514Z	LEVER	
142	RUW147ZA	SPRING	
143	RUB515Z	LEVER	
144	RUB509ZA	LEVER	
145	RDV108ZA	BELT	
149	RHG3032ZA	RUBBER	
150	RNL180ZA	LEVER	
151	REX0308	CABLE ASS'Y	
161	XTW2+6L	SCREW	
162	XTW2+8L	SCREW	
163	XTN26+7J	SCREW	
164	RHE5203ZA	SCREW	
165	XTW2+8S	SCREW	
166	XYC2+JF16	SCREW	
167	RHD26007	SCREW	
168	RJS7T77A	CONNECTOR(J951)	
		DECK 2(R. P)	
201	RXQ0007-2	HEAD ASS'Y	
202	RUA793Z	CHASSIS	
203	RZLAR300	LEVER ASS'Y	
203A	RUW143Z	SPRING	
204	1UB0089ZA	ARM	
204A	RUW148ZA	SPRING	
205	1DM00018ZB	REEL TABLE ASS'Y	
206	1DM00017ZB	REEL TABLE ASS'Y	
207	RUB502Z	LEVER	
208	RDG5772Z	GEAR	
209	RUB508ZA	LEVER	
210	RUB506Z	LEVER	
211	1UB0088ZB	PINCH ROLLER	
211A	RUW141Z	SPRING	
212	1UB0087ZB	PINCH ROLLER	
212A	RUW140Z	SPRING	
214	RNL1Z	ARM	
215	RUB503Z	LEVER	
216	RFKRRSCH9N	CHASSIS ASS'Y	
217	RUW142ZA	SPRING	
218	RUD105Z	SPRING	
220	RUW139ZA	SPRING	
221	RFM133ZA	MOTOR ASS'Y	
222	1UE0015ZA	PLUNGER	
223	RUB428Z	SHAFT	
224	RMA0101	PLATE	
225	RMD5014ZB	SPACER	
226	RDG5927ZG	GEAR	
227	1DW0037ZB	FLYWHEEL ASS'Y	
227A	RNW139Z	WASHER	
228	1DW0038ZB	FLYWHEEL ASS'Y	
228A	RNW138Z	WASHER	
229	1DG0006ZB	GEAR	
230	RUB513Z	LEVER	
231	1UB0091ZA	LEVER	
231A	RUW146ZA	SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
232	1DR0011ZB	PULLEY ASS'Y	
233	RDV90ZB	BELT	
234	RDG5769ZA	GEAR	
235	RUQ111ZA	SPRING	
236	RUW145ZA	SPRING	
237	1UB0090ZA	ROD	
237A	RUB512Z	ROD	
238	RDG5773ZA	GEAR	
239	RUQ112ZA	SPRING	
240	RUS609Z	SPRING	
241	RUB514Z	LEVER	
242	RUW147ZA	SPRING	
243	RUB515Z	LEVER	
244	RUB509ZA	LEVER	
245	RDV108ZA	BELT	
249	RHG3032ZA	RUBBER	
250	RNL180ZA	LEVER	
251	REX0294-1	CABLE ASS'Y	
261	XTW2+6L	SCREW	
262	XTW2+8L	SCREW	
263	XTN26+7J	SCREW	
264	RHE5203ZA	SCREW	
265	XTW2+8S	SCREW	
266	XYC2+JF16	SCREW	
267	RHD26007	SCREW	
268	RJS10T77A	CONNECTOR(J971)	

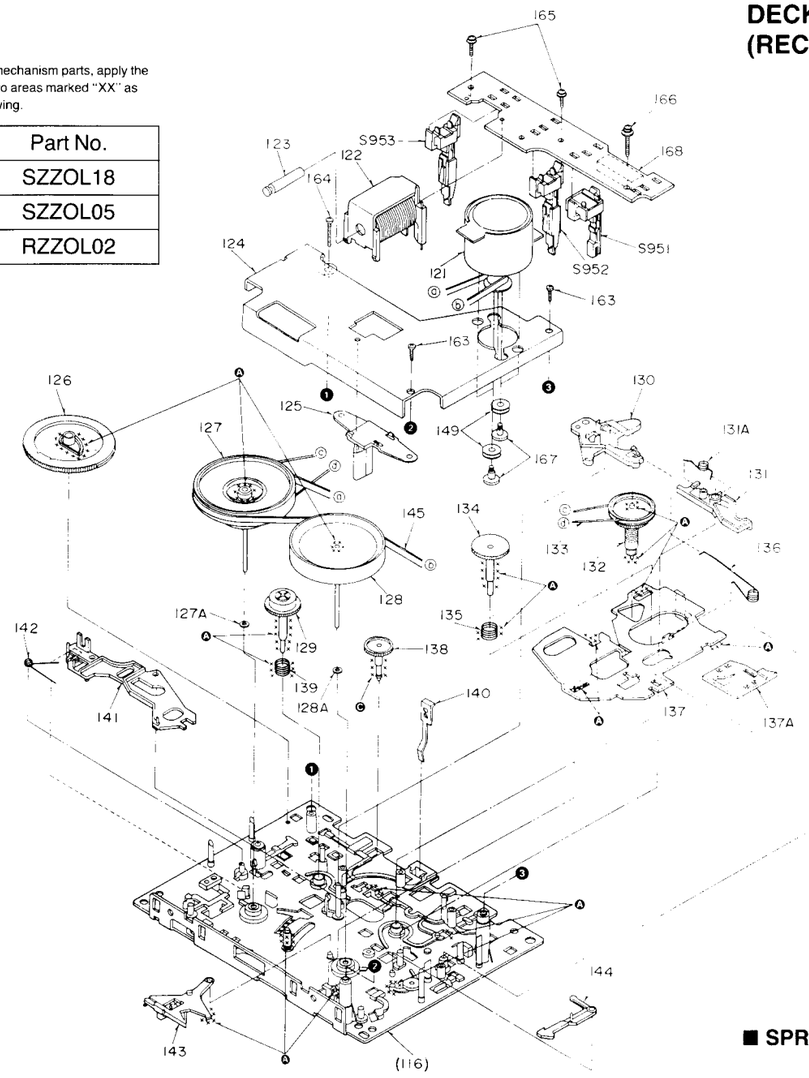
■ MECHANISM PARTS LOCATION

DECK 1 (PLAYBACK)

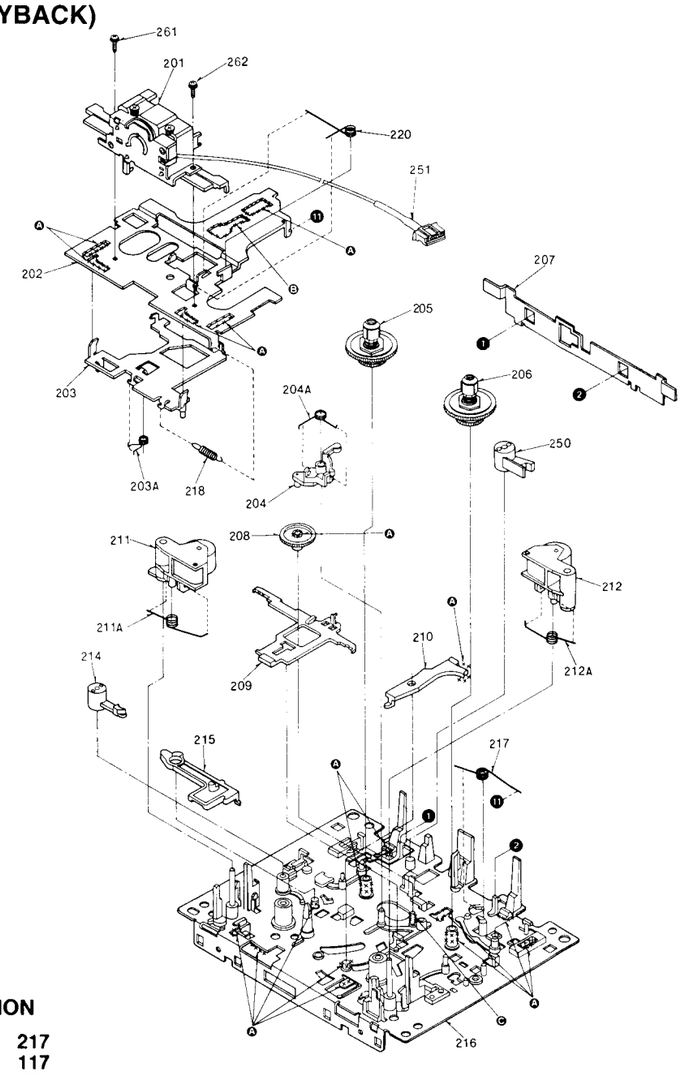


Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Mark	Part No.
Ⓐ	SZZOL18
Ⓑ	SZZOL05
Ⓒ	RZZOL02

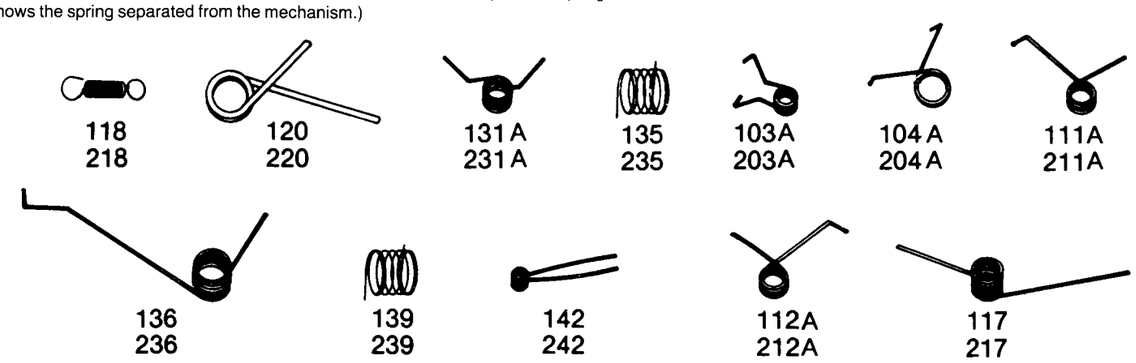


DECK 2 (RECORD/PLAYBACK)

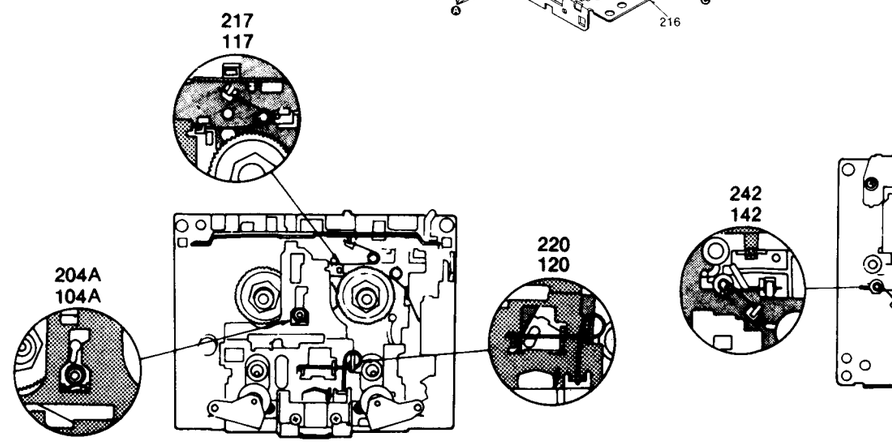


■ SPRING ILLUSTRATION

The spring illustration used shows the actual size so it can be used to check the shape of the spring.
(The illustration shows the spring separated from the mechanism.)



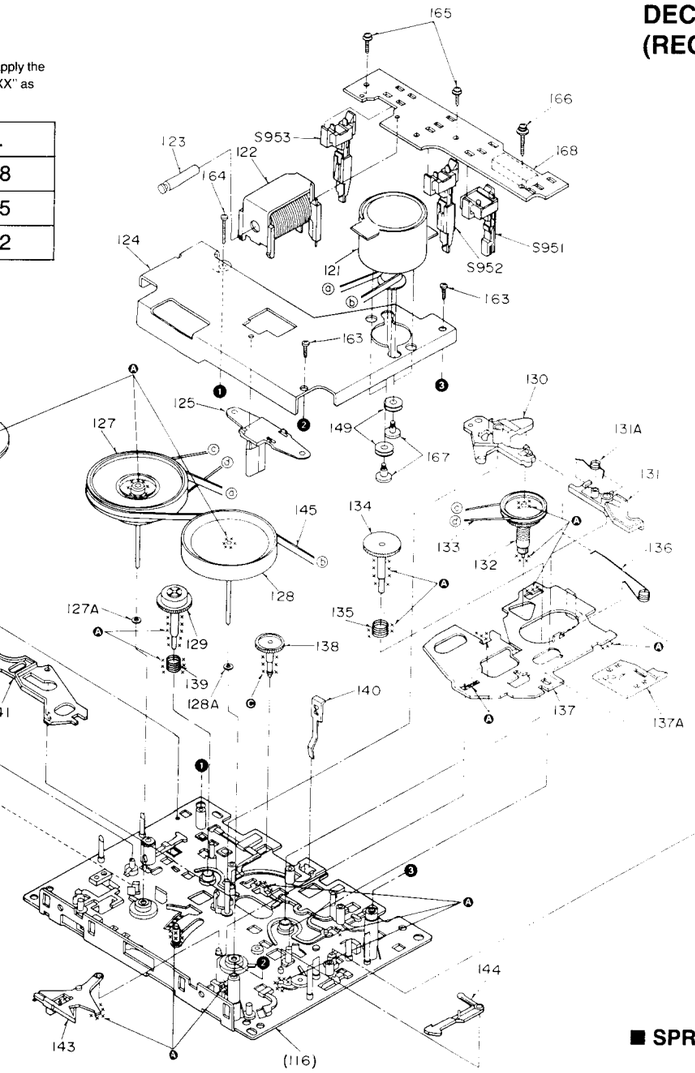
■ SPRING LOCATION



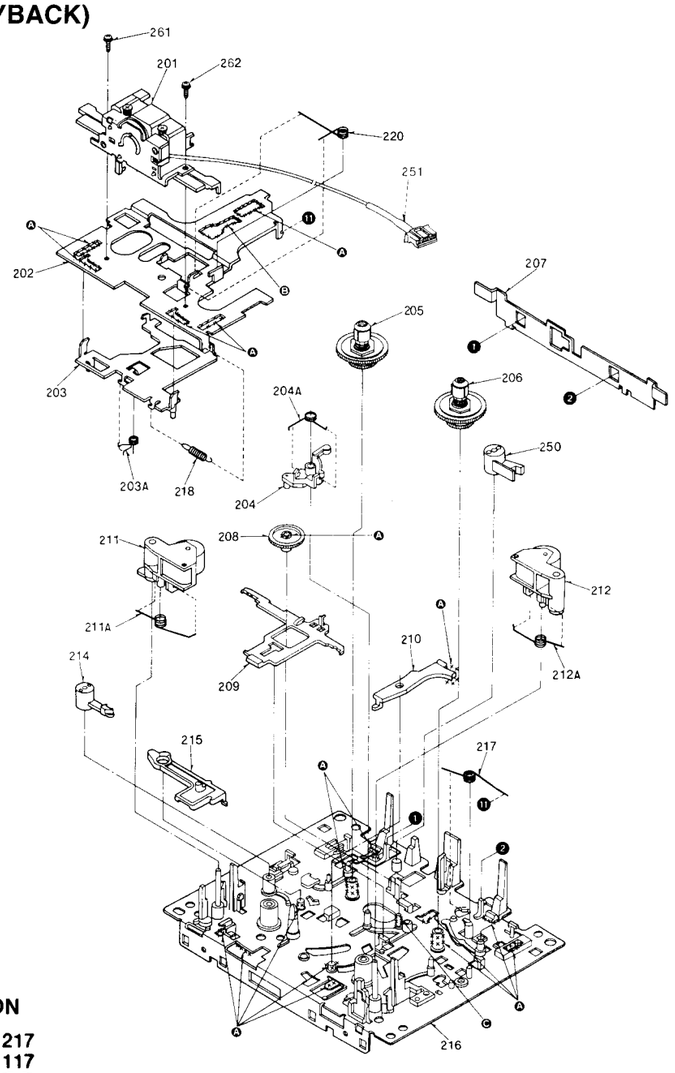
5 6 7 8 9 10 11 12 13 14

pply the
XX" as

.
8
5
2

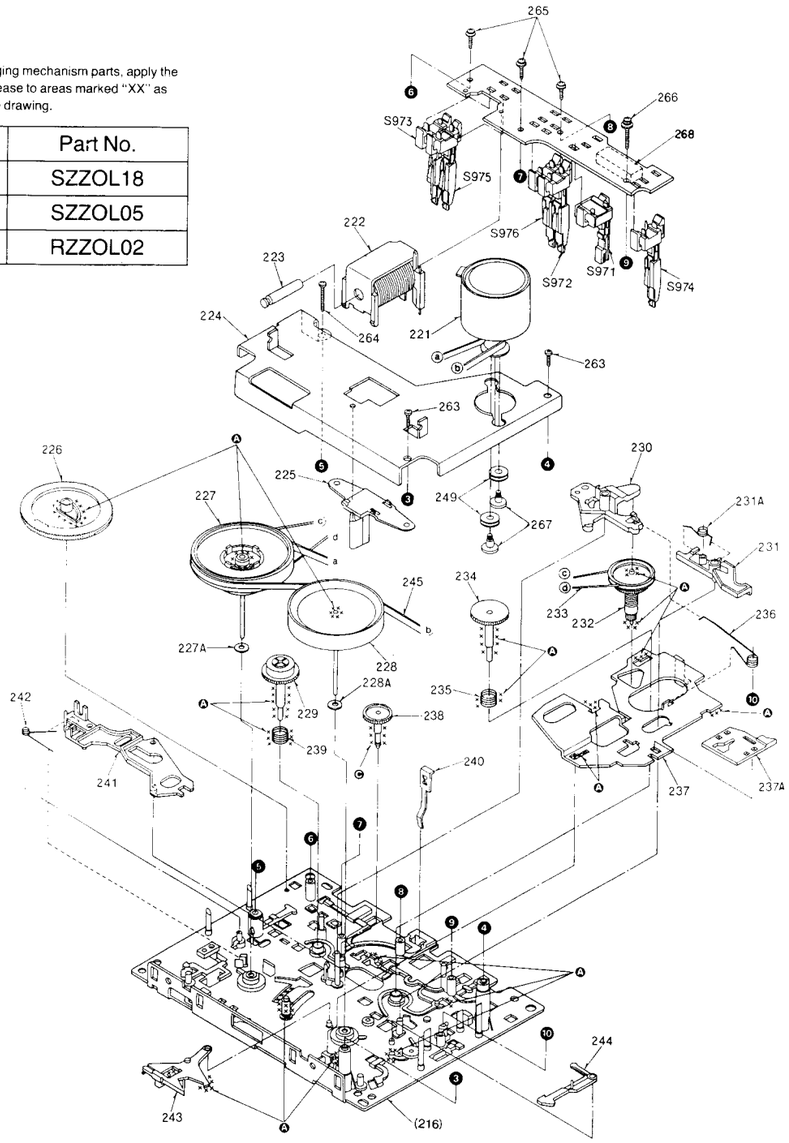


DECK 2 (RECORD/PLAYBACK)

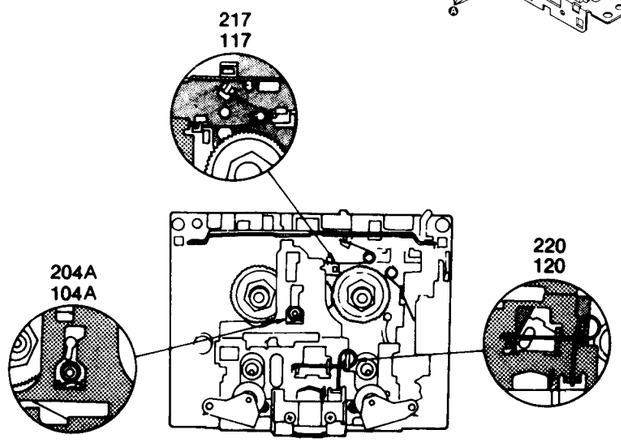


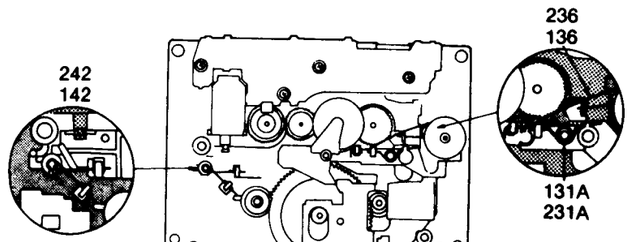
Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

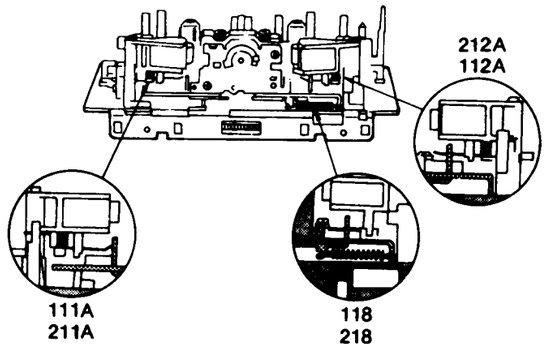
Mark	Part No.
Ⓐ	SZZOL18
Ⓑ	SZZOL05
Ⓒ	RZZOL02

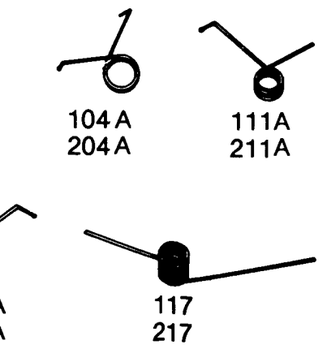


■ **SPRING LOCATION**



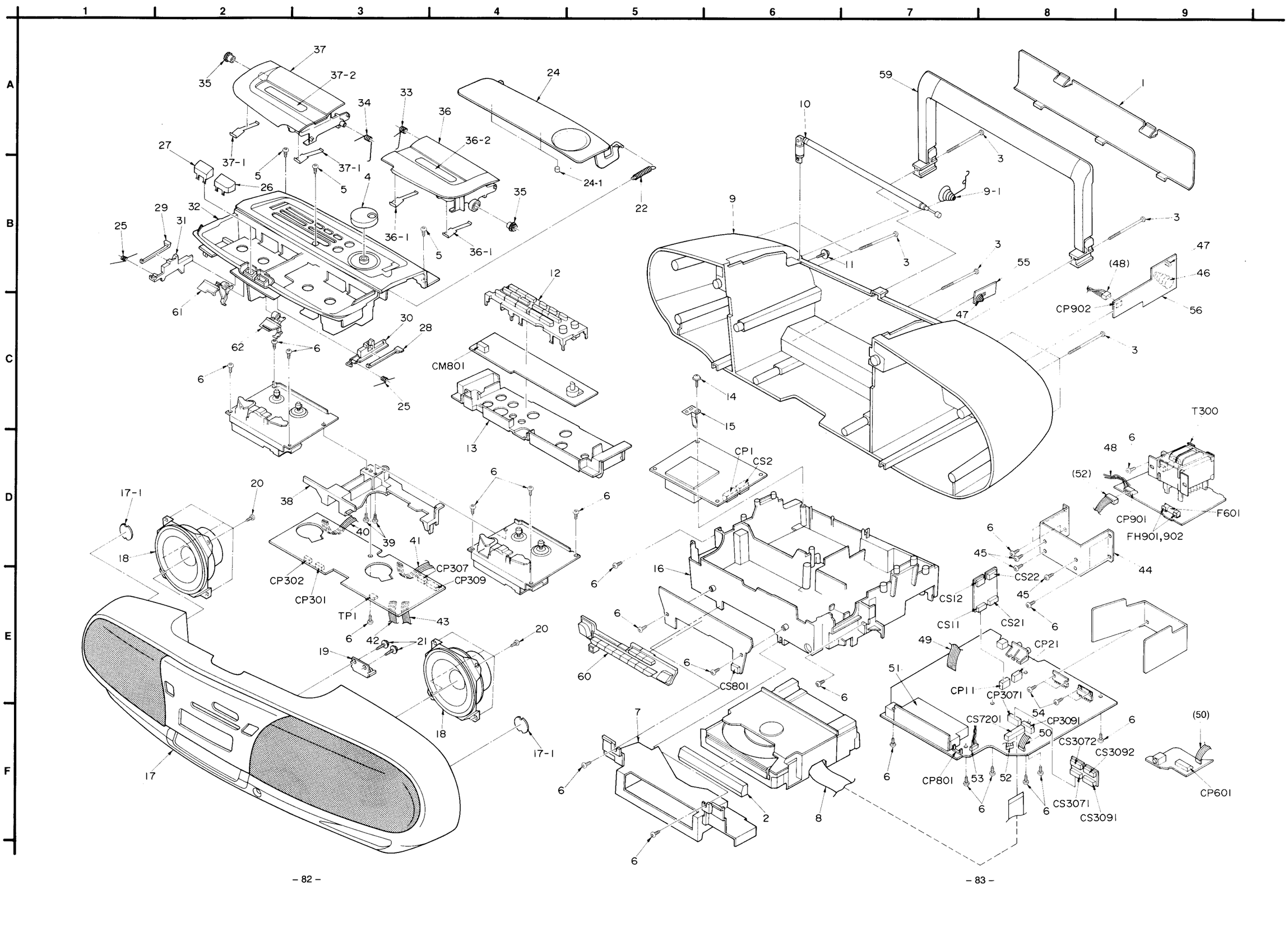




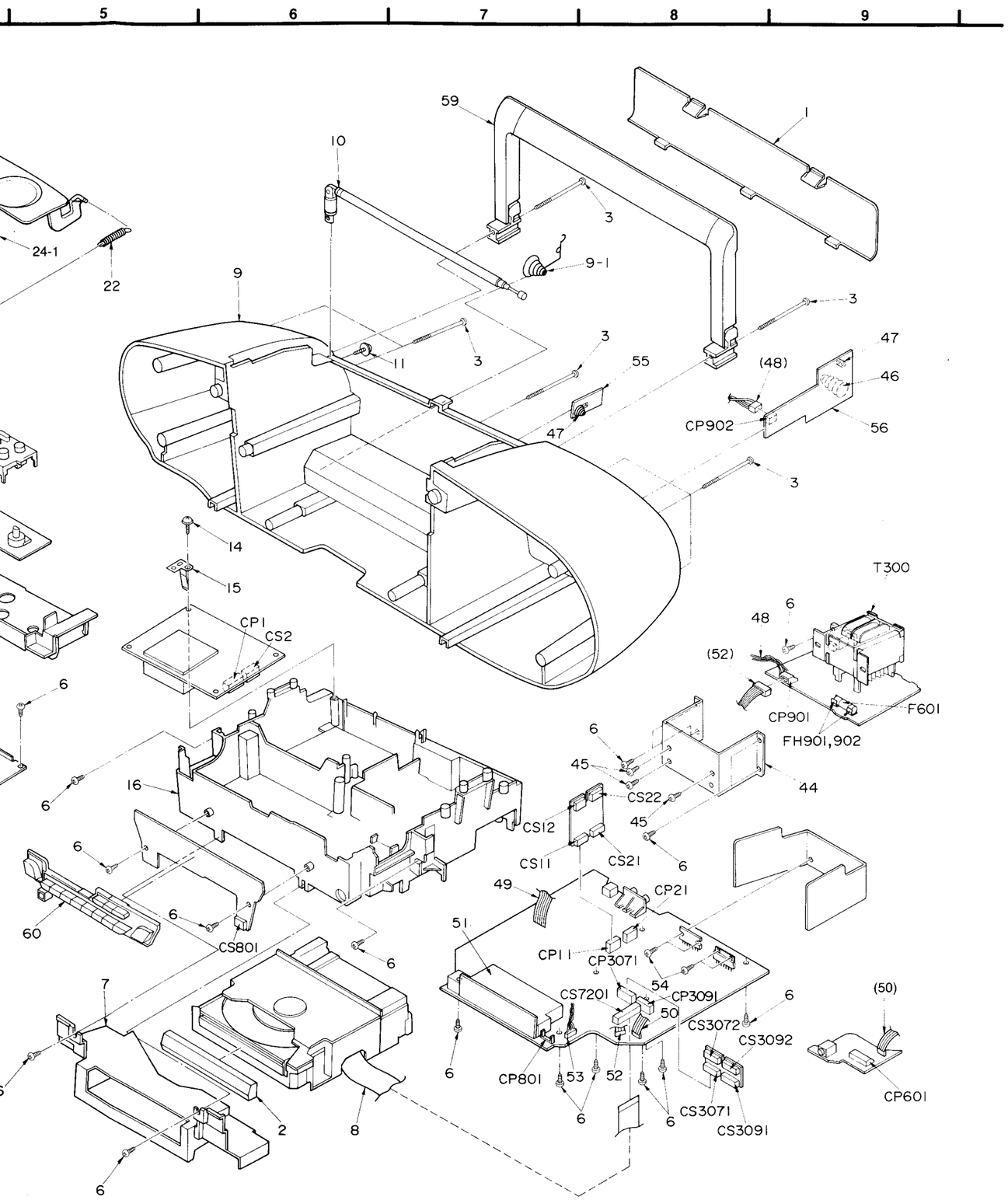


RX-DT505 RX-DT505

■ CABINET PARTS LOCATION



Ref. No.	
1	RKK
2	RGK
3	XTV
4	RGW
5	XTV
6	XTV
7	RMK
8	REE
9	RFK
9	RFK
9-1	RJC
10	XEA
11	XYN
12	RGU
13	RMK
14	RHD
15	RJF
16	RMK
17	RFK
17-1	EFE
18	EAS
19	REX
20	XTV
21	XTV
22	RME
24	RFK
24-1	RMC
25	RME
26	RGU
27	RGU
28	RML
29	RML
30	RML
31	RML
32	RKC
33	RME
34	RME
35	RDC
36	RFK
36-1	RUS
36-2	RGF
37	RFK
37-1	RUS
37-2	RGF
38	RMK
39	XTN
40	RWJ
41	RWJ
42	RWJ



Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKK0041-K	BATTERY COVER	
2	RGK0435-K	ORNAMENT	
3	XTV3+6OG	SCREW	
4	RGW0141-K	KNOB, JOG	
5	XTV3+12GFZ	SCREW	
6	XTV3+12G	SCREW	
7	RMK0140	CHASSIS	
8	REE0360	FPC	
9	RFKHXDT505EG	REAR CABINET ASS'Y	(EG)
9	RFKHXDT505EB	REAR CABINET ASS'Y	(EB)
9-1	RJC9312C	BATTERY SPRING	
10	XEARR225CA-Y	TELESCOPIC ANTENNA	
11	XYN3+F12FY	SCREW	
12	RGU0702A-K	BUTTON, OPERATION	
13	RMK0145	CHASSIS	
14	RHD30006	SCREW	
15	RJR0087	TERMINAL	
16	RMK0139	CHASSIS	
17	RFKGXDT505EG	FRONT CABINET ASS'Y	
17-1	EFBS55C41A6	SPEAKER, TWEETER	
18	EAS10P497B	SPEAKER, WOOFER	
19	REX0413	CABLE ASS'Y(SP)	
20	XTV3+10G	SCREW	
21	XTW3+W10P	SCREW	
22	RMB0224	SPRING	
24	RFKGXDT505PB	TOP COVER	
24-1	RMG0261-K	RUBBER	
25	RME0101	SPRING	
26	RGU0705-K	BUTTON, CASSETTE EJECT(R)	
27	RGU0704-K	BUTTON, CASSETTE EJECT(L)	
28	RML0237	LEVER B	
29	RML0236	LEVER B	
30	RML0235	LEVER A	
31	RML0234	LEVER A	
32	RKQ0101-K	TOP CABINET	
33	RME0099	SPRING	
34	RME0100	SPRING	
35	RDG0183	GEAR	
36	RFKLXDT505AK	CASSETTE LID ASS'Y	
36-1	RUS757ZA	SPRING	
36-2	RGP0257-Q	CASSETTE PANEL	
37	RFKLXDT505BK	CASSETTE LID ASS'Y	
37-1	RUS757ZA	SPRING	
37-2	RGP0256-Q	CASSETTE PANEL	
38	RMK0059-3	CHASSIS	
39	XTN26+6B	SCREW	
40	RWJ1107075QQ	FLAT CABLE(W303)	
41	RWJ1110075QQ	FLAT CABLE(W304)	
42	RWJ4704215KR	FLAT CABLE(W305)	
43	RWJ4704105KR	FLAT CABLE(W306)	
44	RMA0069A	ANGLE	
45	XTV3+6F	SCREW	
46	RJC511ZB	BATTERY TERMINAL(MAIN)	
47	RJC751ZA	BATTERY TERMINAL(MEMORY)	
48	REX0415	CABLE ASS'Y(W902)	
49	RWJ4706140KQ	FLAT CABLE(W801)	
50	RWJ1104090QQ	FLAT CABLE(W601)	
51	RMN0162	HOLDER	
52	REX0414	CABLE ASS'Y(W901)	
53	REX0408Y	CABLE ASS'Y(W796)	
54	XTV3+10F	SCREW	
55	RFKBXDT505EA	P.C.B.	
56	RFKBXDT505EB	P.C.B.	
59	RYH0007-K	HANDLE	
60	RGU0703A-K	BUTTON, OPERATION	
61	RML0238	LEVER C	
62	RML0239	LEVER C	
		PACKING MATERIALS	
P1	RPG1084	GIFT BOX	
P2	RPN0569	PAD	
P3	RPH653ZA	SHEET	
		ACCESSORIES	
A1	RAK-RX318W	REMOTE COMTROLLER	
A1-1	RKK0020-H	BATTERY COVER	
A2	RFKSXDT505EG	INST. MANUAL ASS'Y	(EG)
A2	RQT1502-G	INST. MANUAL	(EB)
A3 ⚠	RJA0019-1K	POWER CORD, AC	

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